

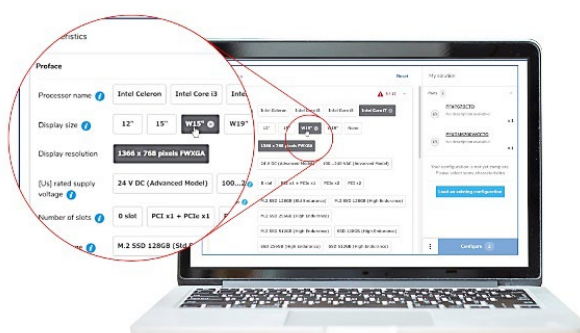


## Lineup

| Model    | CPU           | Core | DIM                        | Supported OS                               | Storage                         | Slot-in Option I/F | Expansion slots            | Projected Capacitive |          |          |          |          | Resistive Film |     | Box only |
|----------|---------------|------|----------------------------|--------------------------------------------|---------------------------------|--------------------|----------------------------|----------------------|----------|----------|----------|----------|----------------|-----|----------|
|          |               |      |                            |                                            |                                 |                    |                            | 22" Wide             | 19" Wide | 15" Wide | 12" Wide | 10" Wide | 15"            | 12" |          |
| Advanced | Core i7       | 4    | 8 - 32GB                   | Windows10 IoT Enterprise 2019 LTSC (64bit) | M.2 SSD x1<br>2.5" HDD/SSD x 2  | 2 slots            | PCI x1 + PCIe x 1          | ✓                    | ✓        | ✓        | ✓        | -        | ✓              | ✓   | ✓        |
|          | Core i5       |      |                            |                                            |                                 |                    | ----- or -----<br>PCIe x 2 | ✓                    | ✓        | ✓        | ✓        | -        | ✓              | ✓   | ✓        |
|          | Celeron       | 2    | 4 - 16GB                   | Windows10 IoT Enterprise 2021 LTSC (64bit) |                                 |                    | ----- or -----<br>PCI x 2  | ✓                    | ✓        | ✓        | ✓        | -        | ✓              | ✓   | ✓        |
| Standard | Core i3       | 2    | 8 - 32GB                   | Windows10 IoT Enterprise 2021 LTSC (64bit) | M.2 SSD x 1<br>2.5" HDD/SSD x 1 | 1 slots            | -                          | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓              | ✓   | ✓        |
| Basic    | -Latest- Atom | 4    | 8 GB                       | Windows10 IoT Enterprise 2021 LTSC (64bit) | M.2 SSD x 2 *<br>SD card x 1    | 1 slots            | -                          | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓              | ✓   | ✓        |
|          |               | 2    | 4 GB<br>--- or ---<br>8 GB |                                            |                                 |                    |                            | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓              | ✓   | ✓        |

\* When installing the second M.2 SSD, the interface option cannot be installed except for the M.2 Wi-Fi/Bluetooth module.

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## ■ Functional Specification

|                      |                           | 22" Wide                                                                                                                                                                                        | 19" Wide     | 15" Wide        | 12" Wide     | 15"                                                                                      | 12"          | Box Only     |
|----------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|--------------|------------------------------------------------------------------------------------------|--------------|--------------|
| Model No.            |                           | PFXP6*A*****                                                                                                                                                                                    | PFXP6*G***** | PFXP6*F*****    | PFXP6*E***** | PFXP6*7*****                                                                             | PFXP6*6***** | PFXP6*B***** |
| CPU                  |                           | Core i7                                                                                                                                                                                         |              | Core i5         |              | Celeron                                                                                  |              |              |
|                      |                           | Core™ i7-8665UE                                                                                                                                                                                 |              | Core™ i5-8365UE |              | Celeron® 4305UE                                                                          |              |              |
|                      | Base frequency            | 1.70 GHz                                                                                                                                                                                        |              | 1.60 GHz        |              | 2.00 GHz                                                                                 |              |              |
|                      | Max turbo boost frequency | 4.40 GHz                                                                                                                                                                                        |              | 4.10 GHz        |              | 2.00 GHz                                                                                 |              |              |
|                      | L2 cache                  | 8 MB                                                                                                                                                                                            |              | 6 MB            |              | 2 MB                                                                                     |              |              |
|                      | Core number               | 4                                                                                                                                                                                               |              | 4               |              | 2                                                                                        |              |              |
|                      | Thread number             | 8                                                                                                                                                                                               |              | 8               |              | 2                                                                                        |              |              |
| Main memory          |                           | 260-pin SO-DIMM socket x 2, DDR4-2400<br>(Up to 16 GB/socket, up to 32 GB for 2 sockets)                                                                                                        |              |                 |              | 260-pin SO-DIMM socket x 2, DDR4-2133<br>(Up to 16 GB/socket, up to 32 GB for 2 sockets) |              |              |
| Video memory         |                           | Shared memory (UMA)<br>Maximum allocation size: Automatic allocation of up to half the installed main memory                                                                                    |              |                 |              |                                                                                          |              |              |
| Storage slot         |                           | M.2 SSD SATA x 1 (Disk 0)<br>2.5-inch SATA (HDD/SSD) x 2 (top: Disk 2, bottom: Disk 1)<br>SATA speed: 6 Gb/s, 3 Gb/s, 1.5 Gb/s                                                                  |              |                 |              |                                                                                          |              |              |
| Expansion slot *1*2  |                           | PCI x 1 + PCIe x 1, PCIe x 2 or PCI x 2<br>PCI card size: Short length<br>PCIe card size: Half length<br>PCI slot: Revision 3.0, 32 bit bus, 3.3 Vdc<br>PCIe slot: Revision 3.0, 1 Link (x1) *3 |              |                 |              |                                                                                          |              |              |
| Graphics accelerator |                           | Intel UHD Graphics 620 (built in CPU)                                                                                                                                                           |              |                 |              | Intel UHD Graphics 610 (built in CPU)                                                    |              |              |
| Security chip        |                           | TPM 2.0                                                                                                                                                                                         |              |                 |              |                                                                                          |              |              |
| BIOS                 |                           | UEFI BIOS                                                                                                                                                                                       |              |                 |              |                                                                                          |              |              |
| Operating system     |                           | Windows® 10 IoT Enterprise 2019 LTSC (64bit)                                                                                                                                                    |              |                 |              |                                                                                          |              |              |
| Watchdog timer *4    |                           | Timeout setting from either 1 to 255 seconds, or 1 to 255 minutes, is possible (set up using API)                                                                                               |              |                 |              |                                                                                          |              |              |
| Buzzer               |                           | Yes                                                                                                                                                                                             |              |                 |              |                                                                                          |              |              |

\*1 The total power consumption of PCI/PCIe cards can be up to 12 W, regardless of whether one or two cards are installed.

\*2 For dimensions of PCI/PCIe cards that can be installed, refer to PCI/PCIe Card Installation.

\*3 The PCIe connector is a x4 Link, edgeless type. However, only 1 Lane is connected for signals.

\*4 The watchdog timer is supported by products with the following system version.

BIOS: WAR02 or later

OS Base: 2.0 or later

You can check the system version from the Launcher. Refer to System . To use the watchdog timer on a product with a WAR01 BIOS, and OS Base 1.0, the BIOS and System Monitor must be updated. Follow the steps below to update.

BIOS: Contact customer support for instructions on how to update.

System Monitor: Download and install the driver(PFXPHMIP6\_Driver\_Installer\_Ver.x.x.zip) and the utility (PFXPHMIP6\_Utility\_Installer\_Ver.x.x.zip) from the PS6000 and FP6000 Series Utility download page in the following URL.

<https://www.pro-face.com/trans/en/manual/1085.html>

## ■ Display Specifications

|                                | 22" Wide                                                                                                  | 19" Wide                                 | 15" Wide                                | 12" Wide                               | 15"                                    | 12"                                    |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Model No.                      | PFXP6*A*****                                                                                              | PFXP6*A*****                             | PFXP6*A*****                            | PFXP6*A*****                           | PFXP6*A*****                           | PFXP6*A*****                           |
| Display Size                   | 21.5"                                                                                                     | 18.5"                                    | 15.6"                                   | 12.1"                                  | 15"                                    | 12.1"                                  |
| Display type                   | TFT Color LCD                                                                                             |                                          |                                         |                                        |                                        |                                        |
| Resolution                     | 1,920 x 1,080 pixels (FHD)                                                                                |                                          | 1,366 x 768 pixels (FWXGA)              | 1,280 x 800 pixels (WXGA)              | 1,024 x 768 pixels (XGA)               |                                        |
| Effective display area (W x H) | 408.96 x 230.04 mm<br>(16.1 x 9.06 in)                                                                    | 476.64 x 268.11 mm<br>(18.77 x 10.56 in) | 344.23 x 193.54 mm<br>(13.55 x 7.62 in) | 261.12 x 163.2 mm<br>(10.28 x 6.43 in) | 304.13 x 228.1 mm<br>(11.97 x 8.98 in) | 245.76 x 184.32 mm<br>(9.68 x 7.26 in) |
| Display colors                 | 16 million colors                                                                                         |                                          |                                         |                                        |                                        |                                        |
| Backlight                      | White LED (not user replaceable. Please contact customer support. )                                       |                                          |                                         |                                        |                                        |                                        |
| Backlight service life         | 50,000 hours or more (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 50%) |                                          |                                         |                                        |                                        |                                        |
| Brightness control             | 0...100 (adjusted with touch panel or software)                                                           |                                          |                                         |                                        |                                        |                                        |

## ■ Touch Panel

|                          | 22" Wide                                                                                                  | 19" Wide     | 15" Wide     | 12" Wide     | 15"                     | 12"          |
|--------------------------|-----------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------------------|--------------|
| Model No.                | PFXP67A*****                                                                                              | PFXP67G***** | PFXP67F***** | PFXP67E***** | PFXP677*****            | PFXP676***** |
| Touch panel type         | Projected capacitive with optimized noise filter                                                          |              |              |              | Resistive film (analog) |              |
| Touch points             | Multi-touch (two-point touch)                                                                             |              |              |              |                         |              |
| Touch panel service life | 10 million times or more                                                                                  |              |              |              |                         |              |
| Touch mode               | Standard mode , water detection mode , glove mode<br>NOTE: For details, refer to <a href="#">Manual</a> . |              |              |              | Not applicable          |              |

## ■ Electrical Specifications

### AC

|                                       |                                                                   | 22" Wide                                                                                      | 19" Wide     | 15" Wide     | 12" Wide     | 15"          | 12"          | Box Only     |
|---------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Model No.                             |                                                                   | PFXP6*A*****                                                                                  | PFXP6*G***** | PFXP6*F***** | PFXP6*E***** | PFXP6*7***** | PFXP6*6***** | PFXP6*B***** |
| Rated input voltage                   |                                                                   | 100...240 Vac                                                                                 |              |              |              |              |              |              |
| Input voltage limits                  |                                                                   | 85...264 Vac                                                                                  |              |              |              |              |              |              |
| Voltage drop (at rated input voltage) |                                                                   | 20 ms or less                                                                                 |              |              |              |              |              |              |
| Power consumption                     | Max                                                               | 313 VA                                                                                        | 310 VA       | 299 VA       | 298 VA       | 301 VA       | 296 VA       | 140 VA       |
|                                       | When power is not supplied to external devices                    | 167 VA                                                                                        | 164 VA       | 153 VA       | 152 VA       | 155 VA       | 150 VA       | 67 VA        |
|                                       | When screen turns off (power is not supplied to external devices) | 69 VA                                                                                         |              |              |              |              |              |              |
| In-rush current                       |                                                                   | 30 A or less                                                                                  |              |              |              |              |              |              |
| Noise immunity                        |                                                                   | Noise voltage: 1,500 Vp-p<br>Pulse duration: 1 μs<br>Rise time: 1 ns<br>(via noise simulator) |              |              |              |              |              |              |
| Dielectric strength                   |                                                                   | 1,500 Vac for 1 minute (between power terminal and PE terminal)                               |              |              |              |              |              |              |
| Insulation resistance                 |                                                                   | 500 Vdc, 10 MΩ or more (between power terminal and PE terminal)                               |              |              |              |              |              |              |

### DC

|                                       |                                                                   | 22" Wide                                                                                      | 19" Wide     | 15" Wide     | 12" Wide     | 15"          | 12"          | Box Only     |
|---------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Model No.                             |                                                                   | PFXP6*A*****                                                                                  | PFXP6*G***** | PFXP6*F***** | PFXP6*E***** | PFXP6*7***** | PFXP6*6***** | PFXP6*B***** |
| Rated input voltage                   |                                                                   | 24 Vdc                                                                                        |              |              |              |              |              |              |
| Input voltage limits                  |                                                                   | 18...31.2 Vdc                                                                                 |              |              |              |              |              |              |
| Voltage drop (at rated input voltage) |                                                                   | 5 ms or less                                                                                  |              |              |              |              |              |              |
| Power consumption                     | Max                                                               | 274 W                                                                                         | 271 W        | 260 W        | 259 W        | 262 W        | 257 W        | 121 W        |
|                                       | When power is not supplied to external devices                    | 144 W                                                                                         | 141 W        | 130 W        | 129 W        | 132 W        | 127 W        | 56 W         |
|                                       | When screen turns off (power is not supplied to external devices) | 58 W                                                                                          |              |              |              |              |              |              |
| In-rush current                       |                                                                   | 30 A or less                                                                                  |              |              |              |              |              |              |
| Noise immunity                        |                                                                   | Noise voltage: 1,000 Vp-p<br>Pulse duration: 1 μs<br>Rise time: 1 ns<br>(via noise simulator) |              |              |              |              |              |              |
| Dielectric strength                   |                                                                   | 1,000 Vac for 1 minute (between power terminal and FG terminal)                               |              |              |              |              |              |              |
| Insulation resistance                 |                                                                   | 500 Vdc, 10 MΩ or more (between power terminal and FG terminal)                               |              |              |              |              |              |              |

## ■ Environmental Specifications

### With HDD

|                                           | 22" Wide                                                                                                                                                                                                                                                                                       | 19" Wide     | 15" Wide     | 12" Wide     | 15"          | 12"          | Box Only                                                           |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------------------------------------------------------------|
| Model No.                                 | PFXP6*A*****                                                                                                                                                                                                                                                                                   | PFXP6*G***** | PFXP6*F***** | PFXP6*E***** | PFXP6*7***** | PFXP6*6***** | PFXP6*B*****                                                       |
| Physical environment                      |                                                                                                                                                                                                                                                                                                |              |              |              |              |              |                                                                    |
| Ambient air temperature<br>(T-Code: T4)   | Wall/Book (Side) mounting: 0...45 °C (32...113 °F) with FAN kit *1                                                                                                                                                                                                                             |              |              |              |              |              | Wall/Book (Side) mounting: 0...45 °C (32...113 °F) with FAN kit *1 |
|                                           | Flat/Book (Top) mounting: 0...45 °C (32...113 °F) with FAN kit *1                                                                                                                                                                                                                              |              |              |              |              |              | Flat/Book (Top) mounting: 0...45 °C (32...113 °F) with FAN kit *1  |
| Storage temperature                       | -20...60 °C (-4...140 °F)                                                                                                                                                                                                                                                                      |              |              |              |              |              | -30...70 °C (-22...158 °F)                                         |
| Ambient air and storage humidity          | 10...90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)                                                                                                                                                                                                                    |              |              |              |              |              |                                                                    |
| Dust                                      | 0.1 mg/m <sup>3</sup> (10-7 oz/ft3) or less (non-conductive levels)                                                                                                                                                                                                                            |              |              |              |              |              |                                                                    |
| Pollution degree                          | For use in Pollution Degree 2 environment                                                                                                                                                                                                                                                      |              |              |              |              |              |                                                                    |
| Corrosive gases                           | Free of corrosive gases                                                                                                                                                                                                                                                                        |              |              |              |              |              |                                                                    |
| Atmospheric pressure (operating altitude) | 800...1,114 hPa (2,000 m [6,561 ft] or lower)                                                                                                                                                                                                                                                  |              |              |              |              |              |                                                                    |
| Mechanical environment                    |                                                                                                                                                                                                                                                                                                |              |              |              |              |              |                                                                    |
| Vibration resistance                      | IEC 60068-2-6 compliant<br>5...9 Hz Single amplitude 1.75 mm (0.07 in)<br>9...150 Hz Fixed acceleration: 4.9 m/s <sup>2</sup><br>X, Y, Z directions for 10 cycles (approximately 100 minutes)<br><b>NOTE:</b> In an environment with vibrations, the read/write speed on the HDD may decrease. |              |              |              |              |              |                                                                    |
| Shock resistance                          | IEC/EN 61131-2 compliant<br>147 m/s2, X, Y, Z directions for 3 times                                                                                                                                                                                                                           |              |              |              |              |              |                                                                    |
| Electrical environment                    |                                                                                                                                                                                                                                                                                                |              |              |              |              |              |                                                                    |
| Electrical fast transient/burst immunity  | IEC 61000-4-4<br>2 kV: Power port<br>1 kV: Signal ports                                                                                                                                                                                                                                        |              |              |              |              |              |                                                                    |
| Electrostatic discharge immunity          | Contact discharge method: 6 kV<br>Air discharge method: 8 kV<br>(IEC/EN 61000-4-2 Level 3)                                                                                                                                                                                                     |              |              |              |              |              |                                                                    |

\*1 The FAN kit is required when using this product with HDD installed.

## General Specifications

### ■ Environmental Specifications

#### Without HDD

|                                           | 22" Wide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19" Wide     | 15" Wide     | 12" Wide     | 15"          | 12"          | Box Only                                                                         |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|----------------------------------------------------------------------------------|
| Model No.                                 | PFXP6*A*****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PFXP6*G***** | PFXP6*F***** | PFXP6*E***** | PFXP6*7***** | PFXP6*6***** | PFXP6*B*****                                                                     |
| Physical environment                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |              |              |              |                                                                                  |
| Ambient air temperature<br>(T-Code: T4)   | Panel (Landscape) mounting: 0...55 °C (32...131 °F) with/without FAN kit<br>(for 19-inch Wide and 22-inch Wide: 0...50 °C (32...122 °F) with/without FAN kit)                                                                                                                                                                                                                                                                                                                                     |              |              |              |              |              | Wall/Book (Side)<br>mounting: 0...55 °C<br>(32...131 °F)<br>with/without FAN kit |
|                                           | Panel (Portrait) mounting: 0...50 °C (32...122 °F) with/without FAN kit                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |              |              |              | Flat/Book (Top)<br>mounting: 0...50 °C<br>(32...122 °F)<br>with/without FAN kit  |
| Storage temperature                       | -20...60 °C (-4...140 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |              |              |              | -30...70 °C<br>(-22...158 °F)                                                    |
| Ambient air and storage humidity          | 10...90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |              |              |              |                                                                                  |
| Dust                                      | 0.1 mg/m³ (10-7 oz/ft3) or less (non-conductive levels)                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |              |              |              |                                                                                  |
| Pollution degree                          | For use in Pollution Degree 2 environment                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |              |              |              |                                                                                  |
| Corrosive gases                           | Free of corrosive gases                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |              |              |              |                                                                                  |
| Atmospheric pressure (operating altitude) | 800...1,114 hPa (2,000 m [6,561 ft] or lower)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |              |              |              |                                                                                  |
| Mechanical environment                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |              |              |              |                                                                                  |
| Vibration resistance                      | IEC/EN 61131-2 compliant<br>5...9 Hz Single amplitude 3.5 mm (0.14 in)<br>9...150 Hz Fixed acceleration: 9.8 m/s²<br>X, Y, Z directions for 10 cycles (approximately 100 minutes)<br><br><b>NOTE:</b> The vibration resistance when using the 22-inch Wide model with PCI/PCle slots attached is as follows.<br>IEC 60068-2-6 compliant<br>5...9 Hz Single amplitude 1.75 mm (0.07 in)<br>9...150 Hz Fixed acceleration: 4.9 m/s²<br>X, Y, Z directions for 10 cycles (approximately 100 minutes) |              |              |              |              |              |                                                                                  |
| Shock resistance                          | IEC/EN 61131-2 compliant<br>147 m/s2, X, Y, Z directions for 3 times                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |              |              |              |                                                                                  |
| Electrical environment                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |              |              |              |                                                                                  |
| Electrical fast transient/burst immunity  | IEC 61000-4-4<br>2 kV: Power port<br>1 kV: Signal ports                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |              |              |              |                                                                                  |
| Electrostatic discharge immunity          | Contact discharge method: 6 kV<br>Air discharge method: 8 kV<br>(IEC/EN 61000-4-2 Level 3)                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |              |              |              |                                                                                  |

### ■ Structural Specifications

|                                       |          | 22" Wide                                                                                                                                                                                     | 19" Wide                                                                             | 15" Wide                                                                         | 12" Wide                                                                            | 15"                                                                                                                                                                                                                                                                                                                                         | 12"                                                                            | Box Only                                                                      |
|---------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Model No.                             |          | PFXP6*A*****                                                                                                                                                                                 | PFXP6*G*****                                                                         | PFXP6*F*****                                                                     | PFXP6*E*****                                                                        | PFXP6*7*****                                                                                                                                                                                                                                                                                                                                | PFXP6*6*****                                                                   | PFXP6*B*****                                                                  |
| Grounding                             | DC Model | Functional grounding: Grounding resistance of 100 Ω or less, 2 mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard (SG and FG are connected inside the product.) |                                                                                      |                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                             |                                                                                |                                                                               |
|                                       | AC Model | Protective grounding: Grounding resistance of 100 Ω or less, 2 mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard (SG and PE are connected inside the product.) |                                                                                      |                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                             |                                                                                |                                                                               |
| Cooling method                        |          | Natural air circulation                                                                                                                                                                      |                                                                                      |                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                                             |                                                                                |                                                                               |
| Structure                             |          | IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13<br><b>NOTE:</b> On the front panel when properly installed in an enclosure.                                     |                                                                                      |                                                                                  |                                                                                     | When using a factory-installed front USB cover:<br>IP65F, IP67F, UL 50/50E, Type 1<br>When using a front USB cover with screw (PFXZCDCVUS1): IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13<br><b>NOTE:</b> On the front panel when properly installed in an enclosure and not using the front panel USB port |                                                                                | —                                                                             |
| External dimensions (W x H x D)       |          | 532.6 x 330.6 x 97 mm<br>(20.97 x 13.02 x 3.82 in)                                                                                                                                           | 463.6 x 293.6 x 97 mm<br>(18.25 x 11.56 x 3.82 in)                                   | 408 x 264 x 95 mm<br>(16.06 x 10.39 x 3.74 in)                                   | 308.5 x 230.5 x 95 mm<br>(12.15 x 9.07 x 3.74 in)                                   | 397 x 296 x 95 mm<br>(15.63 x 11.65 x 3.74 in)                                                                                                                                                                                                                                                                                              | 315 x 241 x 95 mm<br>(12.4 x 9.49 x 3.74 in)                                   | 290 x 195 x 65 mm<br>(11.42 x 7.68 x 2.56 in)                                 |
|                                       |          | <b>with PCI/PCle slots:</b><br>532.6 x 330.6 x 174.4 mm<br>(20.97 x 13.02 x 6.87 in)                                                                                                         | <b>with PCI/PCle slots:</b><br>463.6 x 293.6 x 174.4 mm<br>(18.25 x 11.56 x 6.87 in) | <b>with PCI/PCle slots:</b><br>408 x 264 x 172.4 mm<br>(16.06 x 10.39 x 6.78 in) | <b>with PCI/PCle slots:</b><br>308.5 x 230.5 x 172.4 mm<br>(12.15 x 9.07 x 6.78 in) | <b>with PCI/PCle slots:</b><br>397 x 296 x 172.4 mm<br>(15.63 x 11.65 x 6.78 in)                                                                                                                                                                                                                                                            | <b>with PCI/PCle slots:</b><br>315 x 241 x 172.4 mm<br>(12.4 x 9.49 x 6.78 in) | <b>with PCI/PCle slots:</b><br>290 x 195 x 142 mm<br>(11.42 x 7.68 x 5.59 in) |
|                                       |          | <b>with FAN kit:</b><br>532.6 x 330.6 x 129.3 mm<br>(20.97 x 13.02 x 5.09 in)                                                                                                                | <b>with FAN kit:</b><br>463.6 x 293.6 x 129.3 mm<br>(18.25 x 11.56 x 5.09 in)        | <b>with FAN kit:</b><br>408 x 264 x 127.3 mm<br>(16.06 x 10.39 x 5.01 in)        | <b>with FAN kit:</b><br>308.5 x 230.5 x 127.3 mm<br>(12.15 x 9.07 x 5.04 in)        | <b>with FAN kit:</b><br>397 x 296 x 127.3 mm<br>(15.63 x 11.65 x 5.01 in)                                                                                                                                                                                                                                                                   | <b>with FAN kit:</b><br>315 x 241 x 127.3 mm<br>(12.4 x 9.49 x 5.01 in)        | <b>with FAN kit:</b><br>290 x 195 x 98 mm<br>(11.42 x 7.68 x 3.86 in)         |
| Panel cut dimensions (W x H)<br>*2 *3 |          | 518.5 x 316.5 mm<br>(20.41 x 12.46 in)                                                                                                                                                       | 449.5 x 279.5 mm<br>(17.7 x 11.0 in)                                                 | 394 x 250 mm<br>(15.51 x 9.84 in)                                                | 295 x 217 mm<br>(16.14 x 8.54 in)                                                   | 397 x 296 x 83 mm<br>(15.63 x 11.65 x 3.27 in)                                                                                                                                                                                                                                                                                              | 301.5 x 227.5 mm<br>(11.87 x 8.96 in)                                          | —                                                                             |
| Weight                                |          | 10.0 kg (22.05 lb) or less                                                                                                                                                                   | 8.4 kg (18.52 lb) or less                                                            | 7.5 kg (16.53 lb) or less                                                        | 6.1 kg (13.45 lb) or less                                                           | 7.2 kg (15.87 lb) or less                                                                                                                                                                                                                                                                                                                   | 5.9 kg (13.00 lb) or less                                                      | 3.5 kg (7.72 lb) or less *1                                                   |

<sup>\*1</sup> If the PCI/PCle slot or FAN kit is connected, add the corresponding weight as follows:

PCI/PCle slot: 1.5 kg (3.31 lb)  
FAN kit: 0.5 kg (1.10 lb)

<sup>\*2</sup> For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in) and R in angle are below R3 (R0.12 in).

<sup>\*3</sup> Even if the installation wall thickness is within the recommended range for the Panel Cut Dimensions, depending on

# Advanced Model

P S 6 0 0 0 Series

## Interface Specifications

■ **Interfaces** NOTE: Use only the SELV (Safety Extra-Low Voltage) circuit to connect all the interfaces.

|                                                   | 22" Wide                                                                     | 19" Wide     | 15" Wide     | 12" Wide             | 15"          | 12"          | Box Only     |
|---------------------------------------------------|------------------------------------------------------------------------------|--------------|--------------|----------------------|--------------|--------------|--------------|
| Model No.                                         | PFXP6*A*****                                                                 | PFXP6*G***** | PFXP6*F***** | PFXP6*E*****         | PFXP6*7***** | PFXP6*6***** | PFXP6*B***** |
| Serial interface COM                              |                                                                              |              |              |                      |              |              |              |
| Asynchronous transmission                         | RS-232C (not isolated) x 1                                                   |              |              |                      |              |              |              |
| Data length                                       | 7 or 8 bits                                                                  |              |              |                      |              |              |              |
| Stop bit                                          | 1 or 2 bits                                                                  |              |              |                      |              |              |              |
| Parity                                            | None, odd or even                                                            |              |              |                      |              |              |              |
| Data transmission speed                           | 2,400...115,200 bps                                                          |              |              |                      |              |              |              |
| Connector                                         | D-Sub 9-pin (plug)                                                           |              |              |                      |              |              |              |
| USB (Type A) interface                            |                                                                              |              |              |                      |              |              |              |
| Connector                                         | USB 3.0 (Type A) x 2<br>USB 2.0 (Type A) x 2                                 |              |              |                      |              |              |              |
| Power supply voltage                              | 5 Vdc ±5%                                                                    |              |              |                      |              |              |              |
| Maximum current supplied                          | USB 3.0 (Type A): 900 mA/port<br>USB 2.0 (Type A): 500 mA/port               |              |              |                      |              |              |              |
| Maximum transmission distance                     | USB 3.0 (Type A): 3 m (9.84 ft)<br>USB 2.0 (Type A): 5 m (16.4 ft)           |              |              |                      |              |              |              |
| USB (Type C) interface *1                         |                                                                              |              |              |                      |              |              |              |
| Connector                                         | USB 3.0 (Type C) x 1                                                         |              |              |                      |              |              |              |
| Power supply voltage                              | 5 Vdc ±5% or 12 Vdc ±5%, USB power delivery (source) supported               |              |              |                      |              |              |              |
| Maximum current supplied                          | 900 mA/port<br>3000 mA/port when USB power delivery is enabled *2            |              |              |                      |              |              |              |
| Maximum transmission distance                     | 3 m (9.84 ft)                                                                |              |              |                      |              |              |              |
| Resolution                                        | Up to 4,096 x 2,304 pixels at 60 Hz                                          |              |              |                      |              |              |              |
| Ethernet interface                                |                                                                              |              |              |                      |              |              |              |
| Standard                                          | IEEE1588, 10 BASE-T/ 100 BASE-TX/ 1000BASE-T, Wake-on-LAN (WOL) supported *3 |              |              |                      |              |              |              |
| Connector                                         | Modular jack (RJ-45) x 2                                                     |              |              |                      |              |              |              |
| DisplayPort                                       |                                                                              |              |              |                      |              |              |              |
| Version                                           | V 1.2, dual mode (DP++) supported                                            |              |              |                      |              |              |              |
| Resolution                                        | Up to 4,096 x 2,304 pixels at 60 Hz                                          |              |              |                      |              |              |              |
| Front USB (for display module: 12-inch / 15-inch) |                                                                              |              |              |                      |              |              |              |
| Connector                                         | -                                                                            |              |              | USB 2.0 (Type A) x 1 |              | -            |              |
| Power supply voltage                              | -                                                                            |              |              | 5 Vdc ±5%            |              | -            |              |
| Maximum current supplied                          | -                                                                            |              |              | 500 mA               |              | -            |              |
| Maximum transmission distance                     | -                                                                            |              |              | 5 m (16.4 ft)        |              | -            |              |

\*1 The USB (Type C) interface supports alternate mode (DisplayPort) and USB power delivery (source, 5 Vdc/12 Vdc). When using USB power delivery, an E-Marked (electronically marked) cable is required.

\*2 When Advanced Box is connected to the Display Module, the power supply capability of USB power delivery is limited to 30 W.

\*3 When the status is S4 (hybrid shutdown), Wake-on-LAN is unavailable.

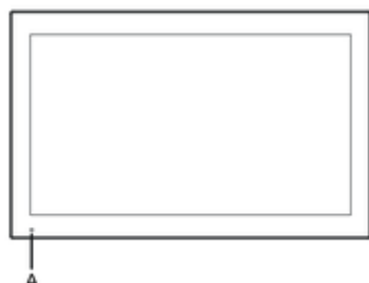
# Advanced Model

P S 6 0 0 0 Series

## Parts Identification and Functions

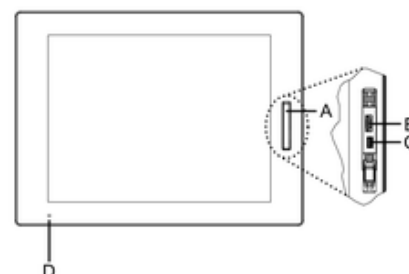
### ■ Display Module

12-inch Wide, 15-inch Wide, 19-inch Wide, 22-inch Wide



A. Status LED

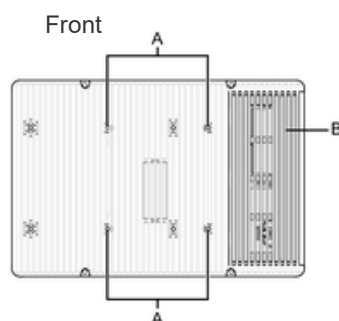
12-inch and 15-inch



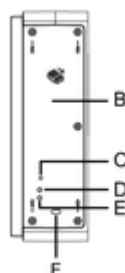
- A. Front USB cover
- B. USB 2.0 (Type A) \*1
- C. USB 2.0 (micro-B) (this interface is unavailable.)
- D. Status LED

\*1 By default, the front USB is disabled. To enable, set in the Launcher.

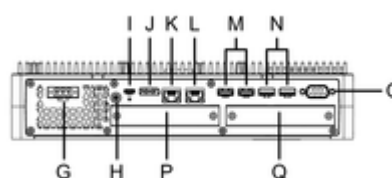
### ■ Box Module



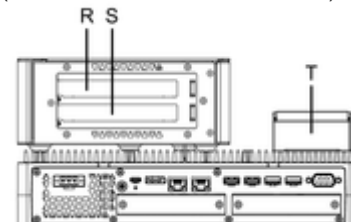
Right



Bottom



Bottom  
(with PCI/PCIe slot and Fan kit)



- A. VESA mount screw hole\*1
- B. Maintenance hatch
- C. Power button
- D. Storage access LED
- E. Status LED
- F. Security lock slot\*2
- G. Power connector

- H. PE terminal (used for AC model only)
- I. USB 3.0 (Type C)
- J. DisplayPort
- K. Ethernet 1
- L. Ethernet 2
- M. USB 3.0 (Type A) \*3

- N. USB 2.0 (Type A) \*3
- O. COM (RS-232C, not isolated)
- P. Optional interface slot 1
- Q. Optional interface slot 2
- R. PCI/PCIe card slot 1 \*4
- S. PCI/PCIe card slot 2 \*4
- T. FAN kit

\*1 This product can be mounted to commercially available monitor arms that comply with the VESA standard (100 x 100 mm). Use four M4 screws (valid screw depth: 8 mm [0.31 in]). The necessary torque is 0.7 to 0.8 N•m (6.2 to 7.1 lb-in). VESA mounting is not UL certified. VESA mounting is not possible when the PCI/PCIe slot is installed.

\*2 Only Kensington lock supported. Slot size 3 x 7 mm (0.12 x 0.28 in).

\*3 USB storage devices that support USB 3.0 are recommended. Use the USB 3.0 port to connect the storage devices.

\*4 For PCI/PCIe slot configuration, refer to [Expansion Slot Installation](#).

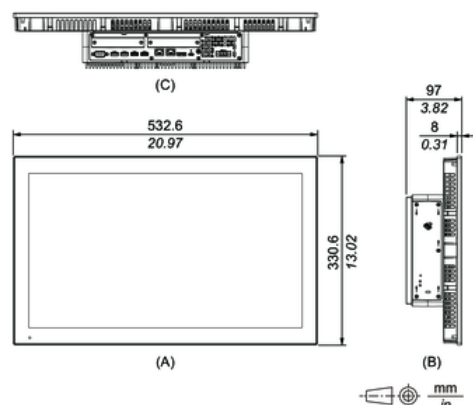
# Advanced Model

P S 6 0 0 0 Series

## Dimensions

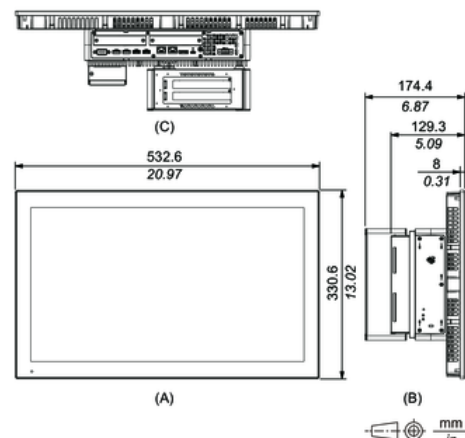
### 22-inch Wide Advanced Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom

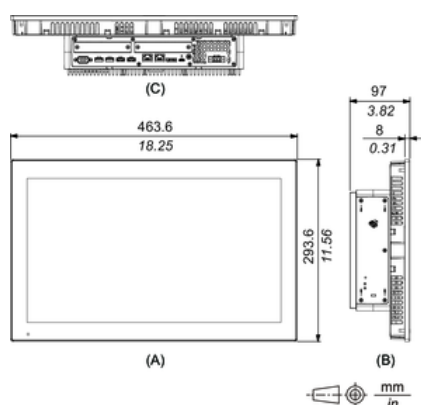
#### External Dimensions with PCI/PCIe Slots and FAN kit



- A. Front
- B. Left
- C. Bottom

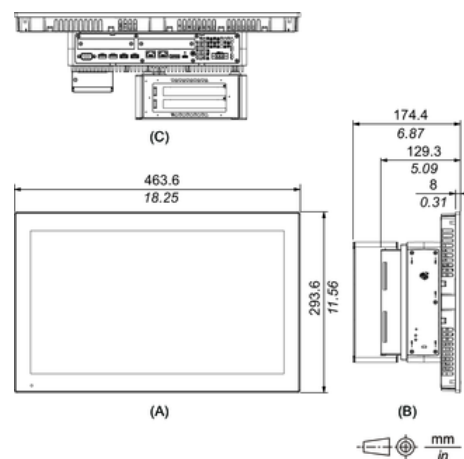
### 19-inch Wide Advanced Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom

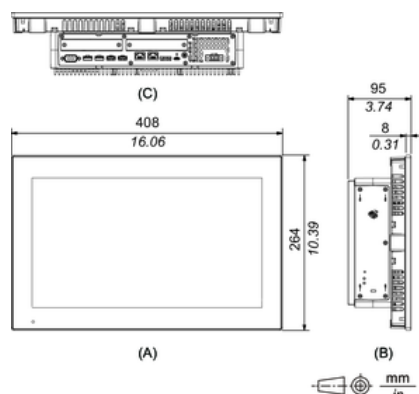
#### External Dimensions with PCI/PCIe Slots and FAN kit



- A. Front
- B. Left
- C. Bottom

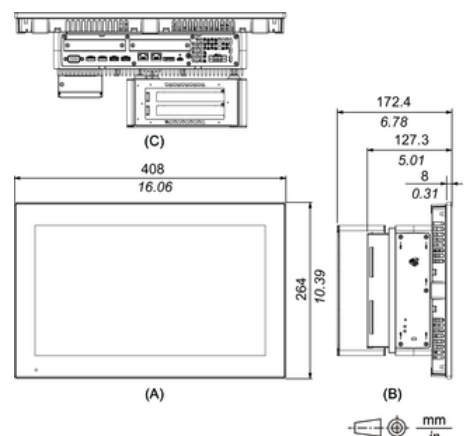
### 15-inch Wide Advanced Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom

#### External Dimensions with PCI/PCIe Slots and FAN kit



- A. Front
- B. Left
- C. Bottom

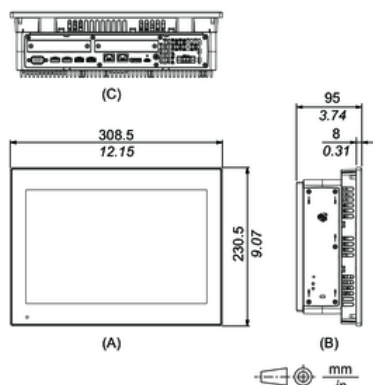
# Advanced Model

P S 6 0 0 0 Series

## Dimensions

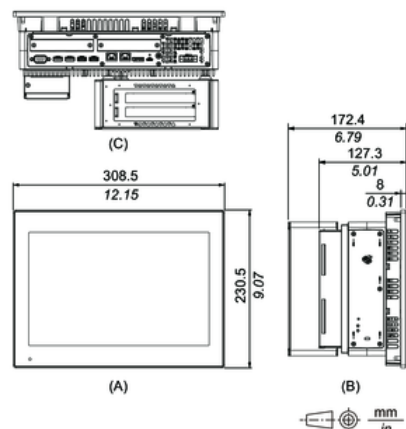
### 12-inch Wide Advanced Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom

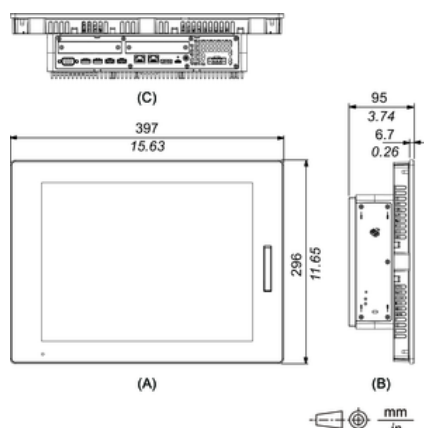
#### External Dimensions with PCI/PCIe Slots and FAN kit



- A. Front
- B. Left
- C. Bottom

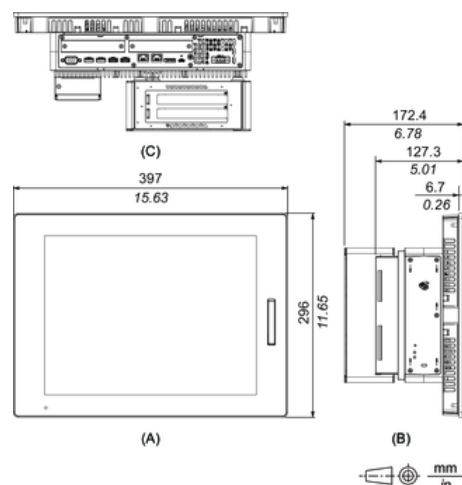
### 15-inch Advanced Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom

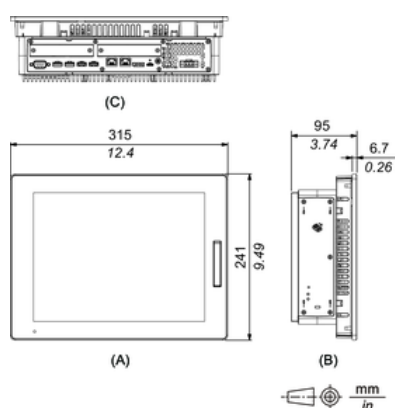
#### External Dimensions with PCI/PCIe Slots and FAN kit



- A. Front
- B. Left
- C. Bottom

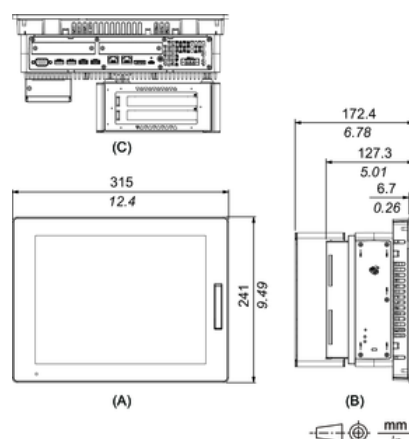
### 12-inch Advanced Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom

#### External Dimensions with PCI/PCIe Slots and FAN kit

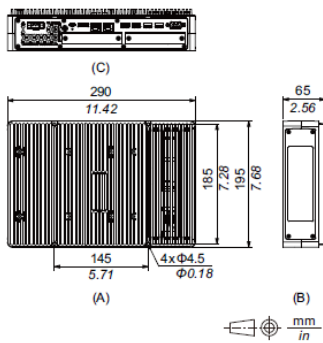


- A. Front
- B. Left
- C. Bottom

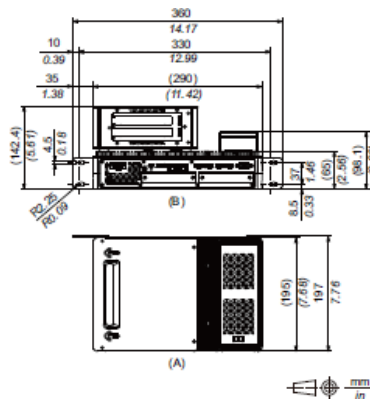


### ■ Advanced Box

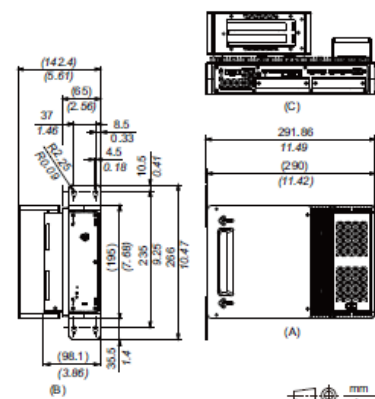
## External Dimensions



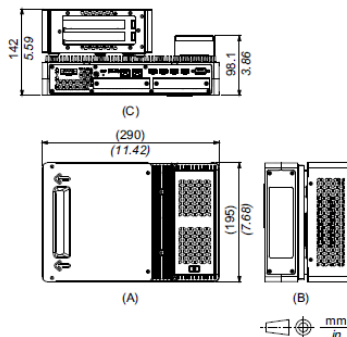
### Dimensions with Book Mount Adapter (Top)



### Dimensions with Book Mount Adapter (Side)



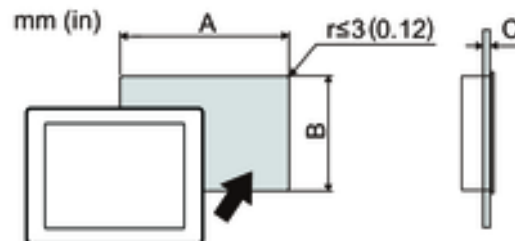
### External Dimensions with PCI/PCIe Slots and FAN kit



A. Front  
B. Left  
C. Bottom

### ■ Panel Cut Dimensions

Based on the panel cut dimensions, open a mount hole on the panel.



| Model Name                                      |                                                 |                            |
|-------------------------------------------------|-------------------------------------------------|----------------------------|
| A                                               | B                                               | C                          |
| <b>12-inch</b>                                  |                                                 |                            |
| 301.5 mm (+1/-0 mm)<br>(11.87 in [+0.04/-0 in]) | 227.5 mm (+1/-0 mm)<br>(8.96 in [+0.04/-0 in])  | 1.6...5 mm (0.06...0.2 in) |
| <b>15-inch</b>                                  |                                                 |                            |
| 383.5 mm (+1/-0 mm)<br>(15.1 in [+0.04/-0 in])  | 282.5 mm (+1/-0 mm)<br>(11.12 in [+0.04/-0 in]) | 1.6...5 mm (0.06...0.2 in) |
| <b>12-inch Wide</b>                             |                                                 |                            |
| 295 mm (+1/-0 mm)<br>(11.61 in [+0.04/-0 in])   | 217 mm (+1/-0 mm)<br>(8.54 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>15-inch Wide</b>                             |                                                 |                            |
| 394 mm (+1/-0 mm)<br>(15.51 in [+0.04/-0 in])   | 250 mm (+1/-0 mm)<br>(9.84 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>19-inch Wide</b>                             |                                                 |                            |
| 449.5 mm (+1/-0 mm)<br>(17.7 in [+0.04/-0 in])  | 279.5 mm (+1/-0 mm)<br>(11.0 in [+0.04/-0 in])  | 1.6...5 mm (0.06...0.2 in) |
| <b>22-inch Wide</b>                             |                                                 |                            |
| 518.5 mm (+1/-0 mm)<br>(20.41 in [+0.04/-0 in]) | 316.5 mm (+1/-0 mm)<br>(12.46 in [+0.04/-0 in]) | 1.6...5 mm (0.06...0.2 in) |

## Functional Specification

|                      |                           | 22" Wide                                                                                                     | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"          | 12"          | Box Only     |
|----------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Model No.            |                           | PFXP63A*****                                                                                                 | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637***** | PFXP636***** | PFXP63B***** |
| CPU                  |                           | Core i3                                                                                                      |              |              |              |              |              |              |              |
|                      |                           | Core™ i3-8145UE                                                                                              |              |              |              |              |              |              |              |
|                      | Base frequency            | 2.20 GHz                                                                                                     |              |              |              |              |              |              |              |
|                      | Max turbo boost frequency | 3.90 GHz                                                                                                     |              |              |              |              |              |              |              |
|                      | L2 cache                  | 4 MB                                                                                                         |              |              |              |              |              |              |              |
|                      | Core number               | 2                                                                                                            |              |              |              |              |              |              |              |
|                      |                           | Thread number                                                                                                |              |              |              |              |              |              |              |
|                      |                           | 4                                                                                                            |              |              |              |              |              |              |              |
| Main memory          |                           | 260-pin SO-DIMM socket x 2, DDR4-2400 (Up to 16 GB/socket, up to 32 GB for 2 sockets)                        |              |              |              |              |              |              |              |
| Video memory         |                           | Shared memory (UMA)<br>Maximum allocation size: Automatic allocation of up to half the installed main memory |              |              |              |              |              |              |              |
| Storage slot         |                           | M.2 SSD SATA x 1 (Disk 0)<br>2.5-inch SATA (HDD/SSD) x 1 (Disk 1)<br>SATA speed: 6 Gb/s, 3 Gb/s, 1.5 Gb/s    |              |              |              |              |              |              |              |
| Expansion slot       |                           | -                                                                                                            |              |              |              |              |              |              |              |
| Graphics accelerator |                           | Intel UHD Graphics 620 (built in CPU)                                                                        |              |              |              |              |              |              |              |
| Security chip        |                           | TPM 2.0                                                                                                      |              |              |              |              |              |              |              |
| BIOS                 |                           | UEFI BIOS                                                                                                    |              |              |              |              |              |              |              |
| Operating system     |                           | Windows® 10 IoT Enterprise 2019 LTSC (64bit)                                                                 |              |              |              |              |              |              |              |
| Watchdog timer *1    |                           | Timeout setting from either 1 to 255 seconds, or 1 to 255 minutes, is possible (set up using API)            |              |              |              |              |              |              |              |
| Buzzer               |                           | Yes                                                                                                          |              |              |              |              |              |              |              |

\*1 The watchdog timer is supported by products with the following system version.

BIOS: WAR02 or later  
OS Base: 2.0 or later

You can check the system version from the Launcher. Refer to System . To use the watchdog timer on a product with a WAR01 BIOS, and OS Base 1.0, the BIOS and System Monitor must be updated. Follow the steps below to update.

BIOS: Contact customer support for instructions on how to update.

System Monitor: Download and install the driver(PFXPHMIP6\_Driver\_Installer\_Ver.x.x.zip) and the utility (PFXPHMIP6\_Utility\_Installer\_Ver.x.x.zip) from the PS6000 and FP6000 Series Utility download page in the following URL.

<https://www.pro-face.com/trans/en/manual/1085.html>

## Display Specifications

|                                | 22" Wide                                                                                                  | 19" Wide                              | 15" Wide                             | 12" Wide                            | 10" Wide                           | 15"                                 | 12"                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Model No.                      | PFXP63A*****                                                                                              | PFXP63G*****                          | PFXP63F*****                         | PFXP63E*****                        | PFXP63D*****                       | PFXP637*****                        | PFXP636*****                        |
| Display Size                   | 21.5"                                                                                                     | 18.5"                                 | 15.6"                                | 12.1"                               | 10.1"                              | 15"                                 | 12.1"                               |
| Display type                   | TFT Color LCD                                                                                             |                                       |                                      |                                     |                                    |                                     |                                     |
| Resolution                     | 1,920 x 1,080 pixels (FHD)                                                                                |                                       | 1,366 x 768 pixels (FWXGA)           | 1,280 x 800 pixels (WXGA)           |                                    | 1,024 x 768 pixels (XGA)            |                                     |
| Effective display area (W x H) | 408.96 x 230.04 mm (16.1 x 9.06 in)                                                                       | 476.64 x 268.11 mm (18.77 x 10.56 in) | 344.23 x 193.54 mm (13.55 x 7.62 in) | 261.12 x 163.2 mm (10.28 x 6.43 in) | 216.96 x 135.6 mm (8.54 x 5.34 in) | 304.13 x 228.1 mm (11.97 x 8.98 in) | 245.76 x 184.32 mm (9.68 x 7.26 in) |
| Display colors                 | 16 million colors                                                                                         |                                       |                                      |                                     |                                    |                                     |                                     |
| Backlight                      | White LED (not user replaceable. Please contact customer support. )                                       |                                       |                                      |                                     |                                    |                                     |                                     |
| Backlight service life         | 50,000 hours or more (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 50%) |                                       |                                      |                                     |                                    |                                     |                                     |
| Brightness control             | 0...100 (adjusted with touch panel or software)                                                           |                                       |                                      |                                     |                                    |                                     |                                     |

## Touch Panel

|                          | 22" Wide                                                                                                  | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"                     | 12"          |
|--------------------------|-----------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-------------------------|--------------|
| Model No.                | PFXP63A*****                                                                                              | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637*****            | PFXP636***** |
| Touch panel type         | Projected capacitive with optimized noise filter                                                          |              |              |              |              | Resistive film (analog) |              |
| Touch points             | Multi-touch (two-point touch)                                                                             |              |              |              |              |                         |              |
| Touch panel service life | 10 million times or more                                                                                  |              |              |              |              |                         |              |
| Touch mode               | Standard mode , water detection mode , glove mode<br>NOTE: For details, refer to <a href="#">Manual</a> . |              |              |              |              | Not applicable          |              |

## ■ Electrical Specifications

## AC

|                                       |                                                                   | 22" Wide                                                                                      | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"          | 12"          | Box Only     |
|---------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Model No.                             |                                                                   | PFXP63A*****                                                                                  | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637***** | PFXP636***** | PFXP63B***** |
| Rated input voltage                   |                                                                   | 100...240 Vac                                                                                 |              |              |              |              |              |              |              |
| Input voltage limits                  |                                                                   | 85...264 Vac                                                                                  |              |              |              |              |              |              |              |
| Voltage drop (at rated input voltage) |                                                                   | 20 ms or less                                                                                 |              |              |              |              |              |              |              |
| Power consumption                     | Max                                                               | 194 VA                                                                                        | 191 VA       | 179 VA       | 178 VA       | 173 VA       | 181 VA       | 176 VA       | 99 VA        |
|                                       | When power is not supplied to external devices                    | 125 VA                                                                                        | 122 VA       | 108 VA       | 107 VA       | 102 VA       | 111 VA       | 106 VA       | 48 VA        |
|                                       | When screen turns off (power is not supplied to external devices) | 69 VA                                                                                         |              |              |              |              |              |              |              |
| In-rush current                       |                                                                   | 30 A or less                                                                                  |              |              |              |              |              |              |              |
| Noise immunity                        |                                                                   | Noise voltage: 1,500 Vp-p<br>Pulse duration: 1 µs<br>Rise time: 1 ns<br>(via noise simulator) |              |              |              |              |              |              |              |
| Dielectric strength                   |                                                                   | 1,500 Vac for 1 minute (between power terminal and PE terminal)                               |              |              |              |              |              |              |              |
| Insulation resistance                 |                                                                   | 500 Vdc, 10 MΩ or more (between power terminal and PE terminal)                               |              |              |              |              |              |              |              |

## DC

|                                       |                                                                   | 22" Wide                                                                                      | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"          | 12"          | Box Only     |
|---------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Model No.                             |                                                                   | PFXP63A*****                                                                                  | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637***** | PFXP636***** | PFXP63B***** |
| Rated input voltage                   |                                                                   | 24 Vdc                                                                                        |              |              |              |              |              |              |              |
| Input voltage limits                  |                                                                   | 18...31.2 Vdc                                                                                 |              |              |              |              |              |              |              |
| Voltage drop (at rated input voltage) |                                                                   | 5 ms or less                                                                                  |              |              |              |              |              |              |              |
| Power consumption                     | Max                                                               | 172 W                                                                                         | 169 W        | 157 W        | 156 W        | 152 W        | 159 W        | 155 W        | 87 W         |
|                                       | When power is not supplied to external devices                    | 106 W                                                                                         | 103 W        | 91 W         | 90 W         | 86 W         | 93 W         | 89 W         | 39 W         |
|                                       | When screen turns off (power is not supplied to external devices) | 58 W                                                                                          |              |              |              |              |              |              |              |
| In-rush current                       |                                                                   | 30 A or less                                                                                  |              |              |              |              |              |              |              |
| Noise immunity                        |                                                                   | Noise voltage: 1,000 Vp-p<br>Pulse duration: 1 µs<br>Rise time: 1 ns<br>(via noise simulator) |              |              |              |              |              |              |              |
| Dielectric strength                   |                                                                   | 1,000 Vac for 1 minute (between power terminal and FG terminal)                               |              |              |              |              |              |              |              |
| Insulation resistance                 |                                                                   | 500 Vdc, 10 MΩ or more (between power terminal and FG terminal)                               |              |              |              |              |              |              |              |

## ■ Environmental Specifications

## With HDD

|                                              | 22" Wide                                                                                                                                                                                                                                                                                       | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"          | 12"          | Box Only                                                 |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------------------------------------------|
| Model No.                                    | PFXP63A*****                                                                                                                                                                                                                                                                                   | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637***** | PFXP636***** | PFXP63B*****                                             |
| Physical environment                         |                                                                                                                                                                                                                                                                                                |              |              |              |              |              |              |                                                          |
| Ambient air temperature<br>(T-Code: T4)      | Panel (Landscape) mounting: 0...40 °C (32...104 °F)                                                                                                                                                                                                                                            |              |              |              |              |              |              | Wall/Book (Side)<br>mounting: 0...40 °C<br>(32...104 °F) |
|                                              | Panel (Portrait) mounting: 0...40 °C (32...104 °F)                                                                                                                                                                                                                                             |              |              |              |              |              |              | Flat/Book (Top)<br>mounting: 0...40 °C<br>(32...104 °F)  |
| Storage temperature                          | -20...60 °C (-4...140 °F)                                                                                                                                                                                                                                                                      |              |              |              |              |              |              | -30...70 °C<br>(-22...158 °F)                            |
| Ambient air and storage humidity             | 10...90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)                                                                                                                                                                                                                    |              |              |              |              |              |              |                                                          |
| Dust                                         | 0.1 mg/m <sup>3</sup> (10-7 oz/ft3) or less (non-conductive levels)                                                                                                                                                                                                                            |              |              |              |              |              |              |                                                          |
| Pollution degree                             | For use in Pollution Degree 2 environment                                                                                                                                                                                                                                                      |              |              |              |              |              |              |                                                          |
| Corrosive gases                              | Free of corrosive gases                                                                                                                                                                                                                                                                        |              |              |              |              |              |              |                                                          |
| Atmospheric pressure<br>(operating altitude) | 800...1,114 hPa (2,000 m [6,561 ft] or lower)                                                                                                                                                                                                                                                  |              |              |              |              |              |              |                                                          |
| Mechanical environment                       |                                                                                                                                                                                                                                                                                                |              |              |              |              |              |              |                                                          |
| Vibration resistance                         | IEC 60068-2-6 compliant<br>5...9 Hz Single amplitude 1.75 mm (0.07 in)<br>9...150 Hz Fixed acceleration: 4.9 m/s <sup>2</sup><br>X, Y, Z directions for 10 cycles (approximately 100 minutes)<br><b>NOTE:</b> In an environment with vibrations, the read/write speed on the HDD may decrease. |              |              |              |              |              |              |                                                          |
| Shock resistance                             | IEC/EN 61131-2 compliant<br>147 m/s2, X, Y, Z directions for 3 times                                                                                                                                                                                                                           |              |              |              |              |              |              |                                                          |
| Electrical environment                       |                                                                                                                                                                                                                                                                                                |              |              |              |              |              |              |                                                          |
| Electrical fast transient/burst immunity     | IEC 61000-4-4<br>2 kV: Power port<br>1 kV: Signal ports                                                                                                                                                                                                                                        |              |              |              |              |              |              |                                                          |
| Electrostatic discharge immunity             | Contact discharge method: 6 kV<br>Air discharge method: 8 kV<br>(IEC/EN 61000-4-2 Level 3)                                                                                                                                                                                                     |              |              |              |              |              |              |                                                          |

\*1 The FAN kit is required when using this product with HDD installed.

## ■ Environmental Specifications

## Without HDD

|                                           | 22" Wide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"          | 12"          | Box Only                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------------------------------------------|
| Model No.                                 | PFXP63A*****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637***** | PFXP636***** | PFXP63B*****                                             |
| Physical environment                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |              |              |              |              |                                                          |
| Ambient air temperature<br>(T-Code: T4)   | Panel (Landscape) mounting: 0...55 °C (32...131 °F)<br>(for 19-inch Wide and 22-inch Wide: 0...50 °C (32...122 °F))                                                                                                                                                                                                                                                                                                                                                                               |              |              |              |              |              |              | Wall/Book (Side)<br>mounting: 0...55 °C<br>(32...131 °F) |
|                                           | Panel (Portrait) mounting: 0...50 °C (32...122 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |              |              |              |              | Flat/Book (Top)<br>mounting: 0...50 °C<br>(32...122 °F)  |
| Storage temperature                       | -20...60 °C (-4...140 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |              |              |              |              | -30...70 °C<br>(-22...158 °F)                            |
| Ambient air and storage humidity          | 10...90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |              |              |              |              |                                                          |
| Dust                                      | 0.1 mg/m³(10-7 oz/ft3) or less (non-conductive levels)                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |              |              |              |              |                                                          |
| Pollution degree                          | For use in Pollution Degree 2 environment                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |              |              |              |              |                                                          |
| Corrosive gases                           | Free of corrosive gases                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |              |              |              |              |                                                          |
| Atmospheric pressure (operating altitude) | 800...1,114 hPa (2,000 m [6,561 ft] or lower)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |              |              |              |              |                                                          |
| Mechanical environment                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |              |              |              |              |                                                          |
| Vibration resistance                      | IEC/EN 61131-2 compliant<br>5...9 Hz Single amplitude 3.5 mm (0.14 in)<br>9...150 Hz Fixed acceleration: 9.8 m/s²<br>X, Y, Z directions for 10 cycles (approximately 100 minutes)<br><br><b>NOTE:</b> The vibration resistance when using the 22-inch Wide model with PCI/PCIe slots attached is as follows.<br>IEC 60068-2-6 compliant<br>5...9 Hz Single amplitude 1.75 mm (0.07 in)<br>9...150 Hz Fixed acceleration: 4.9 m/s²<br>X, Y, Z directions for 10 cycles (approximately 100 minutes) |              |              |              |              |              |              |                                                          |
| Shock resistance                          | IEC/EN 61131-2 compliant<br>147 m/s2, X, Y, Z directions for 3 times                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |              |              |              |              |                                                          |
| Electrical environment                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |              |              |              |              |                                                          |
| Electrical fast transient/burst immunity  | IEC 61000-4-4<br>2 kV: Power port<br>1 kV: Signal ports                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |              |              |              |              |                                                          |
| Electrostatic discharge immunity          | Contact discharge method: 6 kV<br>Air discharge method: 8 kV<br>(IEC/EN 61000-4-2 Level 3)                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |              |              |              |              |                                                          |

## ■ Structural Specifications

|                                    |          | 22" Wide                                                                                                                                                                                     | 19" Wide                                           | 15" Wide                                       | 12" Wide                                          | 10" Wide                                          | 15"                                                                                                                                                                                                                                                                                                                                      | 12"                                          | Box Only                                    |
|------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|
| Model No.                          |          | PFXP63A*****                                                                                                                                                                                 | PFXP63G*****                                       | PFXP63F*****                                   | PFXP63E*****                                      | PFXP63D*****                                      | PFXP637*****                                                                                                                                                                                                                                                                                                                             | PFXP636*****                                 | PFXP63B*****                                |
| Grounding                          | DC Model | Functional grounding: Grounding resistance of 100 Ω or less, 2 mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard (SG and FG are connected inside the product.) |                                                    |                                                |                                                   |                                                   |                                                                                                                                                                                                                                                                                                                                          |                                              |                                             |
|                                    | AC Model | Protective grounding: Grounding resistance of 100 Ω or less, 2 mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard (SG and PE are connected inside the product.) |                                                    |                                                |                                                   |                                                   |                                                                                                                                                                                                                                                                                                                                          |                                              |                                             |
| Cooling method                     |          | Natural air circulation                                                                                                                                                                      |                                                    |                                                |                                                   |                                                   |                                                                                                                                                                                                                                                                                                                                          |                                              |                                             |
| Structure                          |          | IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13<br><b>NOTE:</b> On the front panel when properly installed in an enclosure.                                     |                                                    |                                                |                                                   |                                                   | When using a factory-installed front USB cover: IP65F, IP67F, UL 50/50E, Type 1<br>When using a front USB cover with screw (PFXZCDCVUS1): IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13<br><b>NOTE:</b> On the front panel when properly installed in an enclosure and not using the front panel USB port |                                              | —                                           |
| External dimensions (W x H x D)    |          | 532.6 x 330.6 x 85 mm<br>(20.97 x 13.02 x 3.35 in)                                                                                                                                           | 463.6 x 293.6 x 85 mm<br>(18.25 x 11.56 x 3.35 in) | 408 x 264 x 83 mm<br>(16.06 x 10.39 x 3.27 in) | 308.5 x 230.5 x 83 mm<br>(12.15 x 9.07 x 3.27 in) | 268.5 x 198.5 x 83 mm<br>(10.57 x 7.81 x 3.27 in) | 397 x 296 x 83 mm<br>(15.63 x 11.65 x 3.27 in)                                                                                                                                                                                                                                                                                           | 315 x 241 x 83 mm<br>(12.4 x 9.49 x 3.27 in) | 250 x 165 x 53 mm<br>(9.84 x 6.5 x 2.09 in) |
| Panel cut dimensions (W x H) *1 *2 |          | 518.5 x 316.5 mm<br>(20.41 x 12.46 in)                                                                                                                                                       | 449.5 x 279.5 mm<br>(17.7 x 11.0 in)               | 394 x 250 mm<br>(15.51 x 9.84 in)              | 295 x 217 mm<br>(16.14 x 8.54 in)                 | 255 x 185 mm<br>(10.04 x 7.28 in)                 | 397 x 296 x 83 mm<br>(15.63 x 11.65 x 3.27 in)                                                                                                                                                                                                                                                                                           | 301.5 x 227.5 mm<br>(11.87 x 8.96 in)        | -                                           |
| Weight                             |          | 9.0 kg (19.84 lb) or less                                                                                                                                                                    | 7.4 kg (16.31 lb) or less                          | 6.5 kg (14.33 lb) or less                      | 5.1 kg (11.24 lb) or less                         | 4.5 kg (9.92 lb) or less                          | 6.2 kg (13.67 lb) or less                                                                                                                                                                                                                                                                                                                | 4.9 kg (10.80 lb) or less                    | 2.5 kg (5.51 lb) or less                    |

\*1 For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in) and R in angle are below R3 (R0.12 in).

\*2 Even if the installation wall thickness is within the recommended range for the Panel Cut Dimensions, depending on

■ Interfaces NOTE: Use only the SELV (Safety Extra-Low Voltage) circuit to connect all the interfaces.

|                                                   | 22" Wide                                                                     | 19" Wide     | 15" Wide     | 12" Wide     | 10" Wide     | 15"                  | 12"          | Box Only     |
|---------------------------------------------------|------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
| Model No.                                         | PFXP63A*****                                                                 | PFXP63G***** | PFXP63F***** | PFXP63E***** | PFXP63D***** | PFXP637*****         | PFXP636***** | PFXP63B***** |
| Serial interface COM                              |                                                                              |              |              |              |              |                      |              |              |
| Asynchronous transmission                         | RS-232C (not isolated) x 1                                                   |              |              |              |              |                      |              |              |
| Data length                                       | 7 or 8 bits                                                                  |              |              |              |              |                      |              |              |
| Stop bit                                          | 1 or 2 bits                                                                  |              |              |              |              |                      |              |              |
| Parity                                            | None, odd or even                                                            |              |              |              |              |                      |              |              |
| Data transmission speed                           | 2,400...115,200 bps                                                          |              |              |              |              |                      |              |              |
| Connector                                         | D-Sub 9-pin (plug)                                                           |              |              |              |              |                      |              |              |
| USB (Type A) interface                            |                                                                              |              |              |              |              |                      |              |              |
| Connector                                         | USB 3.0 (Type A) x 2<br>USB 2.0 (Type A) x 2                                 |              |              |              |              |                      |              |              |
| Power supply voltage                              | 5 Vdc ±5%                                                                    |              |              |              |              |                      |              |              |
| Maximum current supplied                          | USB 3.0 (Type A): 900 mA/port<br>USB 2.0 (Type A): 500 mA/port               |              |              |              |              |                      |              |              |
| Maximum transmission distance                     | USB 3.0 (Type A): 3 m (9.84 ft)<br>USB 2.0 (Type A): 5 m (16.4 ft)           |              |              |              |              |                      |              |              |
| USB (Type C) interface *1                         |                                                                              |              |              |              |              |                      |              |              |
| Connector                                         | USB 3.0 (Type C) x 1                                                         |              |              |              |              |                      |              |              |
| Power supply voltage                              | 5 Vdc ±5% or 12 Vdc ±5%, USB power delivery (source) supported               |              |              |              |              |                      |              |              |
| Maximum current supplied                          | 900 mA/port<br>3000 mA/port when USB power delivery is enabled *2            |              |              |              |              |                      |              |              |
| Maximum transmission distance                     | 3 m (9.84 ft)                                                                |              |              |              |              |                      |              |              |
| Resolution                                        | Up to 4,096 x 2,304 pixels at 60 Hz                                          |              |              |              |              |                      |              |              |
| Ethernet interface                                |                                                                              |              |              |              |              |                      |              |              |
| Standard                                          | IEEE1588, 10 BASE-T/ 100 BASE-TX/ 1000BASE-T, Wake-on-LAN (WOL) supported *3 |              |              |              |              |                      |              |              |
| Connector                                         | Modular jack (RJ-45) x 2                                                     |              |              |              |              |                      |              |              |
| DisplayPort                                       |                                                                              |              |              |              |              |                      |              |              |
| Version                                           | V 1.2, dual mode (DP++) supported                                            |              |              |              |              |                      |              |              |
| Resolution                                        | Up to 4,096 x 2,304 pixels at 60 Hz                                          |              |              |              |              |                      |              |              |
| Front USB (for display module: 12-inch / 15-inch) |                                                                              |              |              |              |              |                      |              |              |
| Connector                                         | -                                                                            |              |              |              |              | USB 2.0 (Type A) x 1 |              | -            |
| Power supply voltage                              | -                                                                            |              |              |              |              | 5 Vdc ±5%            |              | -            |
| Maximum current supplied                          | -                                                                            |              |              |              |              | 500 mA               |              | -            |
| Maximum transmission distance                     | -                                                                            |              |              |              |              | 5 m (16.4 ft)        |              | -            |

\*1 The USB (Type C) interface supports alternate mode (DisplayPort) and USB power delivery (source, 5 Vdc/12 Vdc). When using USB power delivery, an E-Marked (electronically marked) cable is required.

\*3 For Standard Box, USB power delivery is effective only when Standard Box is used alone.

\*4 When the status is S4 (hybrid shutdown), Wake-on-LAN is unavailable.

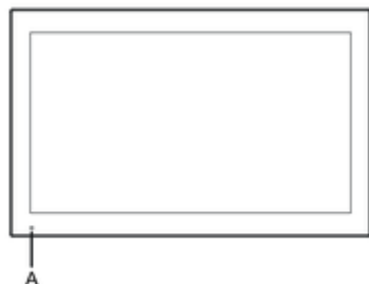
# Standard Model

PS6000 Series

## Parts Identification and Functions

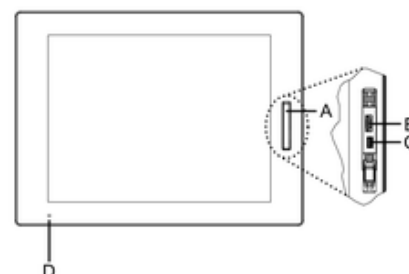
### ■ Display Module

10-inch Wide, 12-inch Wide, 15-inch Wide, 19-inch Wide, 22-inch Wide



A. Status LED

12-inch and 15-inch

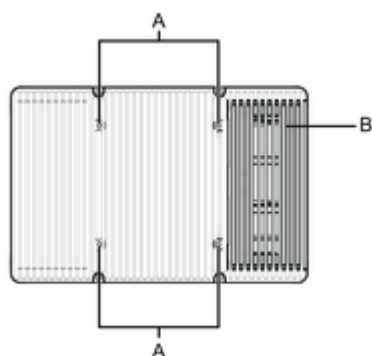


- A. Front USB cover
- B. USB 2.0 (Type A) \*1
- C. USB 2.0 (micro-B) (this interface is unavailable.)
- D. Status LED

\*1 By default, the front USB is disabled. To enable, set in the [Launcher](#).

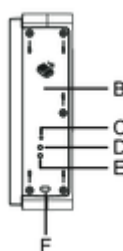
### ■ Box Module

Front



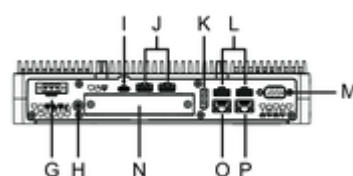
- A. VESA mount screw hole\*1
- B. Maintenance hatch
- C. Power button
- D. Storage access LED
- E. Status LED
- F. Security lock slot\*2
- G. Power connector
- H. PE terminal (used for AC model only)

Right



- I. USB 3.0 (Type C)
- J. USB 3.0 (Type A)\*3
- K. DisplayPort
- L. USB 2.0 (Type A)\*3
- M. COM (RS-232C, not isolated)
- N. Optional interface slot
- O. Ethernet 1
- P. Ethernet 2

Bottom



\*1 This product can be mounted to commercially available monitor arms that comply with the VESA standard (100 x 100 mm). Use four M4 screws (valid screw depth: 8 mm [0.31 in]). The necessary torque is 0.7 to 0.8 N·m (6.2 to 7.1 lb-in). VESA mounting is not UL certified. VESA mounting is not possible when the PCI/PCIe slot is installed.

\*2 Only Kensington lock supported. Slot size 3 x 7 mm (0.12 x 0.28 in).

\*3 USB storage devices that support USB 3.0 are recommended. Use the USB 3.0 port to connect the storage devices.

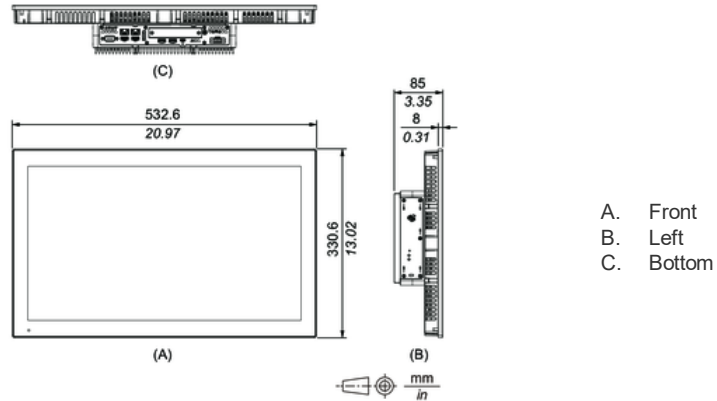
# Standard Model

P S 6 0 0 0 Series

## Dimensions

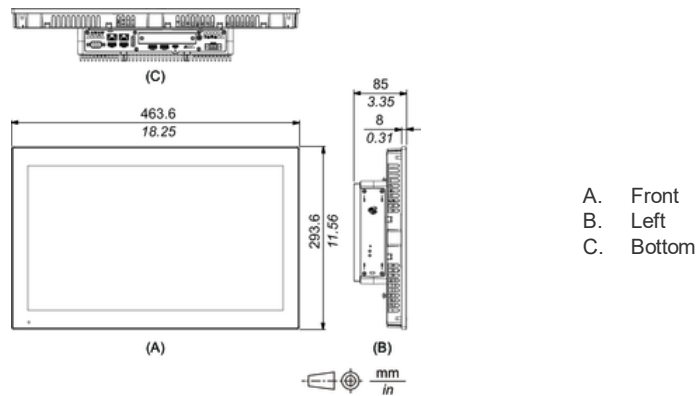
### ■ 22-inch Wide Standard Model

#### External Dimensions



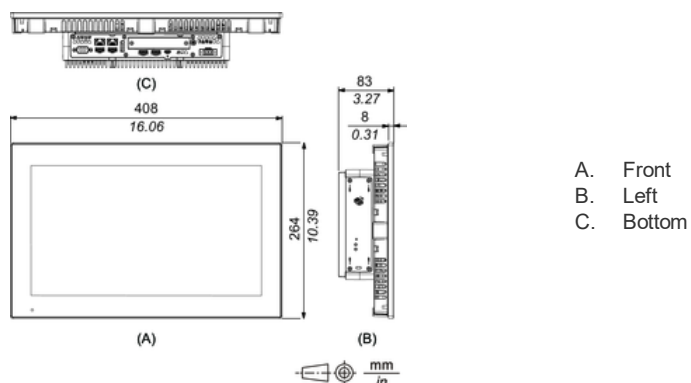
### ■ 19-inch Wide Standard Model

#### External Dimensions



### ■ 15-inch Wide Standard Model

#### External Dimensions



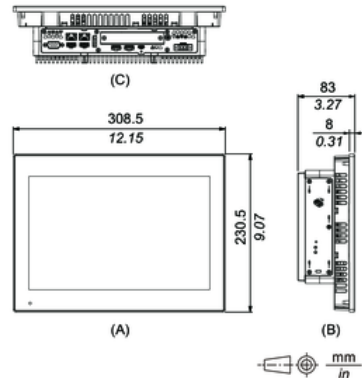
# Standard Model

P S 6 0 0 0 Series

## Dimensions

### 12-inch Wide Standard Model

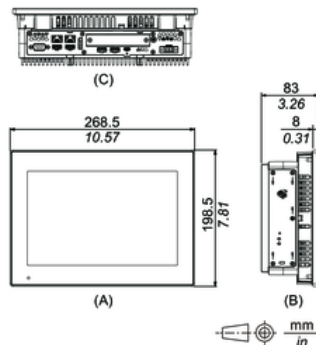
#### External Dimensions



- A. Front
- B. Left
- C. Bottom

### 10-inch Wide Standard Model

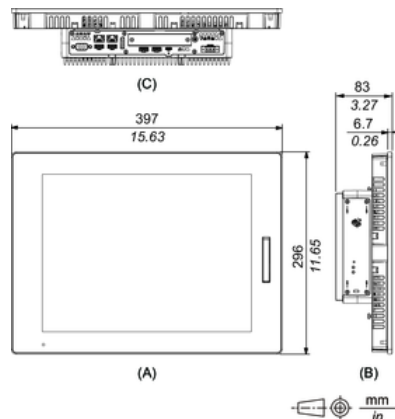
#### External Dimensions



- A. Front
- B. Left
- C. Bottom

### 15-inch Standard Model

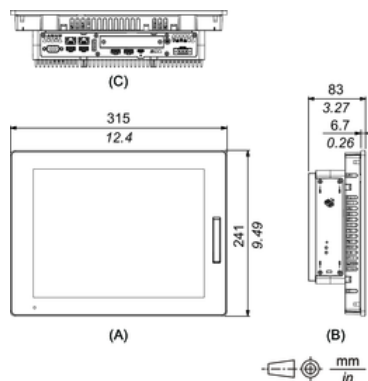
#### External Dimensions



- A. Front
- B. Left
- C. Bottom

### 12-inch Standard Model

#### External Dimensions



- A. Front
- B. Left
- C. Bottom



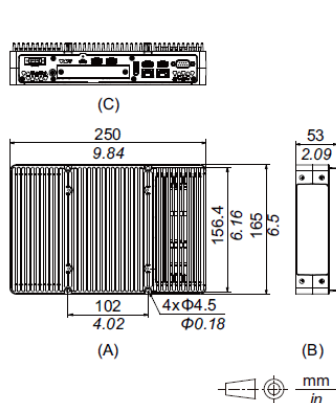
# Standard Model

P S 6 0 0 0 Series

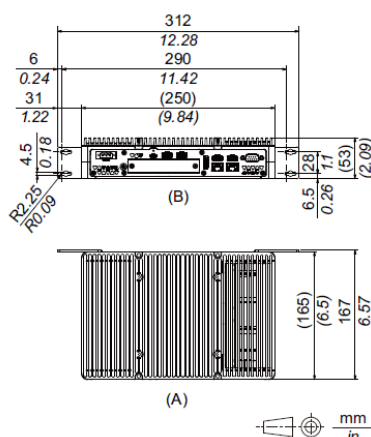
## Dimensions / Panel Type Installation

### Standard Box

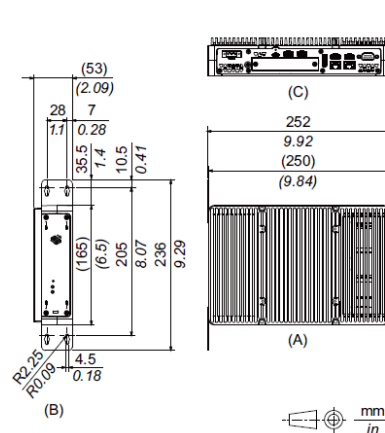
External Dimensions



Dimensions with Book Mount Adapter (Top)

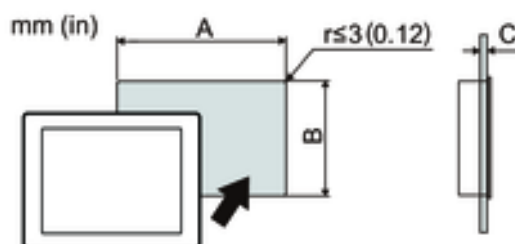


Dimensions with Book Mount Adapter (Side)



### Panel Cut Dimensions

Based on the panel cut dimensions, open a mount hole on the panel.



| Model Name                                      |                                                 |                            |
|-------------------------------------------------|-------------------------------------------------|----------------------------|
| A                                               | B                                               | C                          |
| <b>12-inch</b>                                  |                                                 |                            |
| 301.5 mm (+1/-0 mm)<br>(11.87 in [+0.04/-0 in]) | 227.5 mm (+1/-0 mm)<br>(8.96 in [+0.04/-0 in])  | 1.6...5 mm (0.06...0.2 in) |
| <b>15-inch</b>                                  |                                                 |                            |
| 383.5 mm (+1/-0 mm)<br>(15.1 in [+0.04/-0 in])  | 282.5 mm (+1/-0 mm)<br>(11.12 in [+0.04/-0 in]) | 1.6...5 mm (0.06...0.2 in) |
| <b>10-inch Wide</b>                             |                                                 |                            |
| 255 mm (+1/-0 mm)<br>(10.04 in [+0.04/-0 in])   | 185 mm (+1/-0 mm)<br>(7.28 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>12-inch Wide</b>                             |                                                 |                            |
| 295 mm (+1/-0 mm)<br>(11.61 in [+0.04/-0 in])   | 217 mm (+1/-0 mm)<br>(8.54 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>15-inch Wide</b>                             |                                                 |                            |
| 394 mm (+1/-0 mm)<br>(15.51 in [+0.04/-0 in])   | 250 mm (+1/-0 mm)<br>(9.84 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>19-inch Wide</b>                             |                                                 |                            |
| 449.5 mm (+1/-0 mm)<br>(17.7 in [+0.04/-0 in])  | 279.5 mm (+1/-0 mm)<br>(11.0 in [+0.04/-0 in])  | 1.6...5 mm (0.06...0.2 in) |
| <b>22-inch Wide</b>                             |                                                 |                            |
| 518.5 mm (+1/-0 mm)<br>(20.41 in [+0.04/-0 in]) | 316.5 mm (+1/-0 mm)<br>(12.46 in [+0.04/-0 in]) | 1.6...5 mm (0.06...0.2 in) |

## Functional Specification

|                      |                              | 22" Wide                                                                                                                                         | 19" Wide         | 15" Wide         | 12" Wide         | 10" Wide                                             | 15"              | 12"              | Box Only         |
|----------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------------------------------------------|------------------|------------------|------------------|
| Model No.            |                              | PFXP6*AB0NA*****                                                                                                                                 | PFXP6*GB0NA***** | PFXP6*FB0NA***** | PFXP6*EB0NA***** | PFXP6*DB0NA*****                                     | PFXP6*7B0NA***** | PFXP6*6B0NA***** | PFXP6*BB0NA***** |
|                      |                              | Atom                                                                                                                                             |                  |                  |                  |                                                      |                  |                  |                  |
| CPU                  |                              | Intel Atom Processor X Series,<br>x6211E (Dual Core)                                                                                             |                  |                  |                  | Intel Atom Processor X Series,<br>x6425E (Quad Core) |                  |                  |                  |
|                      | Base frequency               | 1.30 GHz                                                                                                                                         |                  |                  |                  | 2.0 GHz                                              |                  |                  |                  |
|                      | Max turbo boost frequency *1 | 3.00 GHz                                                                                                                                         |                  |                  |                  |                                                      |                  |                  |                  |
|                      | L2 cache                     | 1.5 MB                                                                                                                                           |                  |                  |                  |                                                      |                  |                  |                  |
|                      | Core number                  | 2                                                                                                                                                |                  |                  |                  | 4                                                    |                  |                  |                  |
|                      | Thread number                | 2                                                                                                                                                |                  |                  |                  | 4                                                    |                  |                  |                  |
| Main memory          |                              | Dual channel DDR4, Up to 3200 MHz (In-Band ECC supported) *2<br>260-pin DDR4 SO-DIMM socket x 2, (Up to 16 GB/socket, up to 32 GB for 2 sockets) |                  |                  |                  |                                                      |                  |                  |                  |
| Video memory         |                              | Shared memory (UMA)<br>Maximum allocation size: Automatic allocation of up to half the installed main memory                                     |                  |                  |                  |                                                      |                  |                  |                  |
| Storage slot         |                              | M.2 SSD SATA x 1, M.2 Key B , Type 2242<br>SATA speed: 6 Gb/s, 3 Gb/s, 1.5 Gb/s                                                                  |                  |                  |                  |                                                      |                  |                  |                  |
| Expansion slot       |                              | -                                                                                                                                                |                  |                  |                  |                                                      |                  |                  |                  |
| Graphics accelerator |                              | Intel® UHD Graphics for 10th Gen Intel® Processors                                                                                               |                  |                  |                  |                                                      |                  |                  |                  |
| Security chip        |                              | TPM 2.0                                                                                                                                          |                  |                  |                  |                                                      |                  |                  |                  |
| BIOS                 |                              | UEFI BIOS                                                                                                                                        |                  |                  |                  |                                                      |                  |                  |                  |
| Operating system     |                              | Windows® 10 IoT Enterprise 2021 LTSC (64bit)                                                                                                     |                  |                  |                  |                                                      |                  |                  |                  |
| Watchdog timer *1    |                              | Timeout setting from either 1 to 255 seconds, or 1 to 255 minutes, is possible (set up using API)                                                |                  |                  |                  |                                                      |                  |                  |                  |
| Buzzer               |                              | Yes                                                                                                                                              |                  |                  |                  |                                                      |                  |                  |                  |

\*1 To enable Turbo Boost, refer to Manual.

\*2 For the setting of In-Band ECC, refer to Manual.

## Display Specifications

|                                |  | 22" Wide                                                                                                  | 19" Wide                              | 15" Wide                             | 12" Wide                            | 10" Wide                           | 15"                                 | 12"                                 |
|--------------------------------|--|-----------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Model No.                      |  | PFXP6*AB0NA*****                                                                                          | PFXP6*GB0NA*****                      | PFXP6*FB0NA*****                     | PFXP6*EB0NA*****                    | PFXP6*DB0NA*****                   | PFXP6*7B0NA*****                    | PFXP6*6B0NA*****                    |
| Display Size                   |  | 21.5"                                                                                                     | 18.5"                                 | 15.6"                                | 12.1"                               | 10.1"                              | 15"                                 | 12.1"                               |
| Display type                   |  | TFT Color LCD                                                                                             |                                       |                                      |                                     |                                    |                                     |                                     |
| Resolution                     |  | 1,920 x 1,080 pixels (FHD)                                                                                |                                       | 1,366 x 768 pixels (FWXGA)           | 1,280 x 800 pixels (WXGA)           |                                    | 1,024 x 768 pixels (XGA)            |                                     |
| Effective display area (W x H) |  | 408.96 x 230.04 mm (16.1 x 9.06 in)                                                                       | 476.64 x 268.11 mm (18.77 x 10.56 in) | 344.23 x 193.54 mm (13.55 x 7.62 in) | 261.12 x 163.2 mm (10.28 x 6.43 in) | 216.96 x 135.6 mm (8.54 x 5.34 in) | 304.13 x 228.1 mm (11.97 x 8.98 in) | 245.76 x 184.32 mm (9.68 x 7.26 in) |
| Display colors                 |  | 16 million colors                                                                                         |                                       |                                      |                                     |                                    |                                     |                                     |
| Backlight                      |  | White LED (not user replaceable. Please contact customer support. )                                       |                                       |                                      |                                     |                                    |                                     |                                     |
| Backlight service life         |  | 50,000 hours or more (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 50%) |                                       |                                      |                                     |                                    |                                     |                                     |
| Brightness control             |  | 0...100 (adjusted with touch panel or software)                                                           |                                       |                                      |                                     |                                    |                                     |                                     |

## Touch Panel

|                          | 22" Wide                                                                                                  | 19" Wide         | 15" Wide         | 12" Wide         | 10" Wide         | 15"                     | 12"              |
|--------------------------|-----------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|-------------------------|------------------|
| Model No.                | PFXP6*AB0NA*****                                                                                          | PFXP6*GB0NA***** | PFXP6*FB0NA***** | PFXP6*EB0NA***** | PFXP6*DB0NA***** | PFXP6*7B0NA*****        | PFXP6*6B0NA***** |
| Touch panel type         | Projected capacitive with optimized noise filter                                                          |                  |                  |                  |                  | Resistive film (analog) |                  |
| Touch points             | Multi-touch (two-point touch)                                                                             |                  |                  |                  |                  |                         |                  |
| Touch panel service life | 10 million times or more                                                                                  |                  |                  |                  |                  |                         |                  |
| Touch mode               | Standard mode , water detection mode , glove mode<br>NOTE: For details, refer to <a href="#">Manual</a> . |                  |                  |                  |                  | Not applicable          |                  |

## Electrical Specifications

|                                       |                                                                   | 22" Wide               | 19" Wide         | 15" Wide         | 12" Wide         | 10" Wide         | 15"              | 12"              | Box Only         |
|---------------------------------------|-------------------------------------------------------------------|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Model No.                             |                                                                   | PFXP6*AB0NA*****       | PFXP6*GB0NA***** | PFXP6*FB0NA***** | PFXP6*EB0NA***** | PFXP6*DB0NA***** | PFXP6*7B0NA***** | PFXP6*6B0NA***** | PFXP6*BB0NA***** |
| Rated input voltage                   |                                                                   | 12... 24 Vdc           |                  |                  |                  |                  |                  |                  |                  |
| Input voltage limits                  |                                                                   | 9...36 Vdc             |                  |                  |                  |                  |                  |                  |                  |
| Voltage drop (at rated input voltage) |                                                                   | 20.4 Vdc: 1 ms or less |                  |                  |                  |                  |                  |                  |                  |
| Power consumption                     | Max                                                               | 115 W                  | 114 W            | 104 W            | 101 W            | 98 W             | 106 W            | 102 W            | 45 W             |
|                                       | When power is not supplied to external devices                    | 79 W                   | 78 W             | 68 W             | 65 W             | 62 W             | 70 W             | 66 W             | 27 W             |
|                                       | When screen turns off (power is not supplied to external devices) | 29 VA                  |                  |                  |                  |                  |                  |                  |                  |
| In-rush current                       |                                                                   | 30 A or less           |                  |                  |                  |                  |                  |                  |                  |
| Dielectric strength                   |                                                                   | N/A (non-isolated)     |                  |                  |                  |                  |                  |                  |                  |
| Insulation resistance                 |                                                                   | N/A (non-isolated)     |                  |                  |                  |                  |                  |                  |                  |

## Environmental Specifications

|                                           | 22" Wide                                                                                                                                                                          | 19" Wide         | 15" Wide         | 12" Wide         | 10" Wide         | 15"              | 12"              | Box Only                   |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------------|
| Model No.                                 | PFXP6*AB0NA*****                                                                                                                                                                  | PFXP6*GB0NA***** | PFXP6*FB0NA***** | PFXP6*EB0NA***** | PFXP6*DB0NA***** | PFXP6*7B0NA***** | PFXP6*6B0NA***** | PFXP6*BB0NA*****           |
| Physical environment                      |                                                                                                                                                                                   |                  |                  |                  |                  |                  |                  |                            |
| Ambient air temperature<br>(T-Code: T4)   | 0...55 °C (32...131 °F)<br>(for 19-inch Wide and 22-inch Wide: 0...50 °C [32...122 °F])                                                                                           |                  |                  |                  |                  |                  |                  | 0...55 °C<br>(32...131 °F) |
| Storage temperature                       | -20...60 °C (-4...140 °F)                                                                                                                                                         |                  |                  |                  |                  |                  |                  |                            |
| Ambient air and storage humidity          | 10...90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)                                                                                                       |                  |                  |                  |                  |                  |                  |                            |
| Dust                                      | 0.1 mg/m³ (10-7 oz/ft3) or less (non-conductive levels)                                                                                                                           |                  |                  |                  |                  |                  |                  |                            |
| Pollution degree                          | For use in Pollution Degree 2 environment                                                                                                                                         |                  |                  |                  |                  |                  |                  |                            |
| Corrosive gases                           | Free of corrosive gases                                                                                                                                                           |                  |                  |                  |                  |                  |                  |                            |
| Atmospheric pressure (operating altitude) | 800...1,114 hPa (2,000 m [6,561 ft] or lower)                                                                                                                                     |                  |                  |                  |                  |                  |                  |                            |
| Mechanical environment                    |                                                                                                                                                                                   |                  |                  |                  |                  |                  |                  |                            |
| Vibration resistance                      | IEC/EN 61131-2 compliant<br>5...9 Hz Single amplitude 3.5 mm (0.14 in)<br>9...150 Hz Fixed acceleration: 9.8 m/s²<br>X, Y, Z directions for 10 cycles (approximately 100 minutes) |                  |                  |                  |                  |                  |                  |                            |
| Shock resistance                          | IEC/EN 61131-2 compliant<br>147 m/s2, X, Y, Z directions for 3 times                                                                                                              |                  |                  |                  |                  |                  |                  |                            |
| Electrical environment                    |                                                                                                                                                                                   |                  |                  |                  |                  |                  |                  |                            |
| Electrical fast transient/burst immunity  | IEC 61000-4-4<br>2 kV: Power port<br>1 kV: Signal ports                                                                                                                           |                  |                  |                  |                  |                  |                  |                            |
| Electrostatic discharge immunity          | Contact discharge method: 6 kV<br>Air discharge method: 8 kV<br>(IEC/EN 61000-4-2 Level 3)                                                                                        |                  |                  |                  |                  |                  |                  |                            |

## Structural Specifications

|                                    |  | 22" Wide                                                                                                                                                                                     | 19" Wide                                           | 15" Wide                                       | 12" Wide                                          | 10" Wide                                          | 15"                                                                                                                                                                                                                                                                                                                                      | 12"                                          | Box Only                                    |
|------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|
| Model No.                          |  | PFXP6*AB0NA*****                                                                                                                                                                             | PFXP6*GB0NA*****                                   | PFXP6*FB0NA*****                               | PFXP6*EB0NA*****                                  | PFXP6*DB0NA*****                                  | PFXP6*7B0NA*****                                                                                                                                                                                                                                                                                                                         | PFXP6*6B0NA*****                             | PFXP6*BB0NA*****                            |
| Grounding                          |  | Functional grounding: Grounding resistance of 100 Ω or less, 2 mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard (SG and FG are connected inside the product.) |                                                    |                                                |                                                   |                                                   |                                                                                                                                                                                                                                                                                                                                          |                                              |                                             |
| Cooling method                     |  | Natural air circulation                                                                                                                                                                      |                                                    |                                                |                                                   |                                                   |                                                                                                                                                                                                                                                                                                                                          |                                              |                                             |
| Structure                          |  | IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13<br><b>NOTE:</b> On the front panel when properly installed in an enclosure.                                     |                                                    |                                                |                                                   |                                                   | When using a factory-installed front USB cover: IP65F, IP67F, UL 50/50E, Type 1<br>When using a front USB cover with screw (PFXZCDCVUS1): IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13<br><b>NOTE:</b> On the front panel when properly installed in an enclosure and not using the front panel USB port |                                              |                                             |
| External dimensions (W x H x D)    |  | 532.6 x 330.6 x 69 mm<br>(20.97 x 13.02 x 2.71 in)                                                                                                                                           | 463.6 x 293.6 x 69 mm<br>(18.25 x 11.56 x 2.71 in) | 408 x 264 x 67 mm<br>(16.06 x 10.39 x 2.63 in) | 308.5 x 230.5 x 67 mm<br>(12.15 x 9.07 x 2.63 in) | 268.5 x 198.5 x 67 mm<br>(10.57 x 7.81 x 2.63 in) | 397 x 296 x 67 mm<br>(15.63 x 11.65 x 2.63 in)                                                                                                                                                                                                                                                                                           | 315 x 241 x 67 mm<br>(12.4 x 9.48 x 2.63 in) | 250 x 165 x 37 mm<br>(9.84 x 6.5 x 1.45 in) |
| Panel cut dimensions (W x H) *1 *2 |  | 518.5 x 316.5 mm<br>(20.41 x 12.46 in)                                                                                                                                                       | 449.5 x 279.5 mm<br>(17.7 x 11.0 in)               | 394 x 250 mm<br>(15.51 x 9.84 in)              | 295 x 217 mm<br>(16.14 x 8.54 in)                 | 255 x 185 mm<br>(10.04 x 7.28 in)                 | 397 x 296 x 83 mm<br>(15.63 x 11.65 x 3.27 in)                                                                                                                                                                                                                                                                                           | 301.5 x 227.5 mm<br>(11.87 x 8.96 in)        | -                                           |
| Weight                             |  | 8.2 kg (18.07 lb) or less                                                                                                                                                                    | 6.6 kg (14.55 lb) or less                          | 5.7 kg (12.56 lb) or less                      | 4.3 kg (9.5 lb) or less                           | 3.7 kg (8.15 lb) or less                          | 5.4 kg (11.90 lb) or less                                                                                                                                                                                                                                                                                                                | 4.1 kg (9.03 lb) or less                     | 1.7 kg (3.74 lb) or less                    |

\*1 For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in) and R in angle are below R3 (R0.12 in).

\*2 Even if the installation wall thickness is within the recommended range for the Panel Cut Dimensions, depending on

■ Interfaces **NOTE:** Use only the SELV (Safety Extra-Low Voltage) circuit to connect all the interfaces.

|                                                   | 22" Wide                                                                                                        | 19" Wide         | 15" Wide         | 12" Wide         | 10" Wide             | 15"              | 12"              | Box Only         |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|----------------------|------------------|------------------|------------------|
| Model No.                                         | PFXP6*AB0NA*****                                                                                                | PFXP6*GB0NA***** | PFXP6*FB0NA***** | PFXP6*EB0NA***** | PFXP6*DB0NA*****     | PFXP6*7B0NA***** | PFXP6*6B0NA***** | PFXP6*BB0NA***** |
| Serial interface COM                              |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
| Asynchronous transmission                         | RS-232C/422/485 (non-isolated) x 2<br>(default: RS-485)                                                         |                  |                  |                  |                      |                  |                  |                  |
| Data length                                       | 7 or 8 bits                                                                                                     |                  |                  |                  |                      |                  |                  |                  |
| Stop bit                                          | 1 or 2 bits                                                                                                     |                  |                  |                  |                      |                  |                  |                  |
| Parity                                            | None, odd or even                                                                                               |                  |                  |                  |                      |                  |                  |                  |
| Flow control                                      | Hardware flow control: RTS/CTS(RS-232C),<br>ERA/EAB/CSA/CSB(RS-422HMLmode)*1<br>Software flow control: Xon/Xoff |                  |                  |                  |                      |                  |                  |                  |
| Auto direction control                            | Always enabled only in RS-485                                                                                   |                  |                  |                  |                      |                  |                  |                  |
| Echo cancellation                                 | Supported only in RS-485 *1                                                                                     |                  |                  |                  |                      |                  |                  |                  |
| Data transmission speed                           | 2,400...115,200 bps                                                                                             |                  |                  |                  |                      |                  |                  |                  |
| Connector                                         | D-Sub 9-pin (plug)                                                                                              |                  |                  |                  |                      |                  |                  |                  |
| USB (Type A) interface                            |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
| Connector                                         | USB 3.1 Gen1 (Type A) x 2                                                                                       |                  |                  |                  |                      |                  |                  |                  |
| Power supply voltage                              | 5 Vdc ±5%                                                                                                       |                  |                  |                  |                      |                  |                  |                  |
| Maximum current supplied                          | 900 mA/port                                                                                                     |                  |                  |                  |                      |                  |                  |                  |
| Maximum transmission distance                     | 3 m (9.84 ft)                                                                                                   |                  |                  |                  |                      |                  |                  |                  |
| USB (Type C) interface *2                         |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
| Connector                                         | USB 3.1 Gen1 (Type C) x 1                                                                                       |                  |                  |                  |                      |                  |                  |                  |
| Power supply voltage                              | 5 Vdc ±5%                                                                                                       |                  |                  |                  |                      |                  |                  |                  |
| Maximum current supplied                          | 1.5 A/port                                                                                                      |                  |                  |                  |                      |                  |                  |                  |
| Maximum transmission distance                     | 3 m (9.84 ft)                                                                                                   |                  |                  |                  |                      |                  |                  |                  |
| Resolution                                        | Up to 4,096 x 2,304 pixels at 60 Hz                                                                             |                  |                  |                  |                      |                  |                  |                  |
| Ethernet interface                                |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
| Standard                                          | IEEE1588, 10 BASE-T/ 100 BASE-TX/ 1000BASE-T, Wake-on-LAN (WOL) supported *3                                    |                  |                  |                  |                      |                  |                  |                  |
| Connector                                         | Modular jack (RJ-45) x 2                                                                                        |                  |                  |                  |                      |                  |                  |                  |
| SD card interface                                 |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
|                                                   | SD card slot (storage) x 1<br>SDXC UHS-I supported                                                              |                  |                  |                  |                      |                  |                  |                  |
| DisplayPort                                       |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
| Version                                           | V 1.2, dual mode (DP++) supported                                                                               |                  |                  |                  |                      |                  |                  |                  |
| Resolution                                        | Up to 4,096 x 2,304 pixels at 60 Hz                                                                             |                  |                  |                  |                      |                  |                  |                  |
| Front USB (for display module: 12-inch / 15-inch) |                                                                                                                 |                  |                  |                  |                      |                  |                  |                  |
| Connector                                         | -                                                                                                               |                  |                  |                  | USB 2.0 (Type A) x 1 |                  | -                |                  |
| Power supply voltage                              | -                                                                                                               |                  |                  |                  | 5 Vdc ±5%            |                  | -                |                  |
| Maximum current supplied                          | -                                                                                                               |                  |                  |                  | 500 mA               |                  | -                |                  |
| Maximum transmission distance                     | -                                                                                                               |                  |                  |                  | 5 m (16.4 ft)        |                  | -                |                  |

\*<sup>1</sup> Echo cancellation of the serial interfaces on Box Module is set not to receive the echo(Enabled) as default. For the setting refer to the Manual.

\*<sup>2</sup> The USB (Type C) interface supports alternate mode (DisplayPort)

\*<sup>3</sup> When the status is S4 (hybrid shutdown), Wake-on-LAN is unavailable.

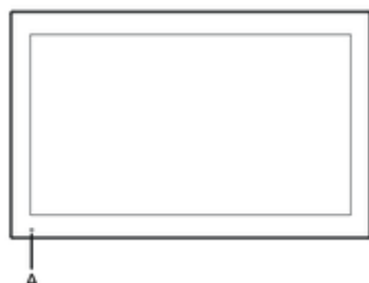
## Basic Model

PS6000 Series

## Parts Identification and Functions

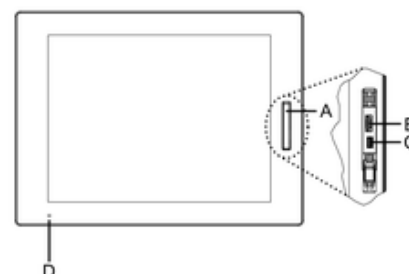
### ■ Display Module

10-inch Wide, 12-inch Wide, 15-inch Wide, 19-inch Wide, 22-inch Wide



A. Status LED

12-inch and 15-inch

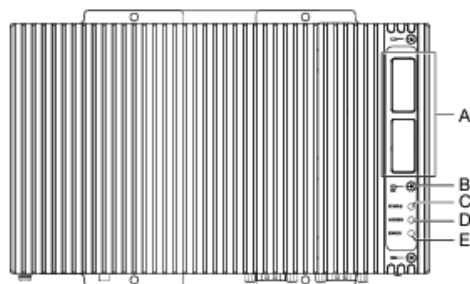


- A. Front USB cover
- B. USB 2.0 (Type A) \*1
- C. USB 2.0 (micro-B) (this interface is unavailable.)
- D. Status LED

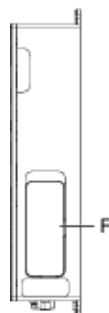
\*1 By default, the front USB is disabled. To enable, set in the [Launcher](#).

### ■ Box Module

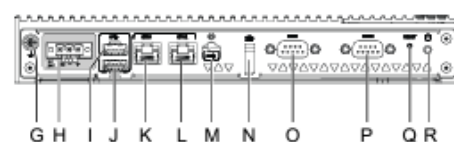
Front



Right



Bottom



- |                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| A. Optional module interface | J. USB 3.1 Gen1(Type A)                                   |
| B. SD slots crew             | K. Ethernet interface(ETH1)                               |
| C. Status LED                | L. Ethernet interface(ETH2)                               |
| D. Storage access LED        | M. USB3.1Gen1(TypeC)                                      |
| E. Error LED                 | N. DisplayPort                                            |
| F. SD slot cover             | O. Serial interface(RS-232C/422/485,nonisolated)(COM1) *1 |
| G. FG terminal               | P. Serial interface(RS-232C/422/485,nonisolated)(COM2) *1 |
| H. DC power connector        | Q. Reset button                                           |
| I. USB 3.1 Gen1(Type A)      | R. Power button *2                                        |

\*1 For the settings of the serial ports on Box Module, refer to Manual

\*2 The power button in WindowsPower Options is set to Shut down by default.

The following options are available for the power button. Select an option suitable for your usage environment.

- Do nothing
- Sleep
- Hibernate
- Shut down (default)
- Turn off the display

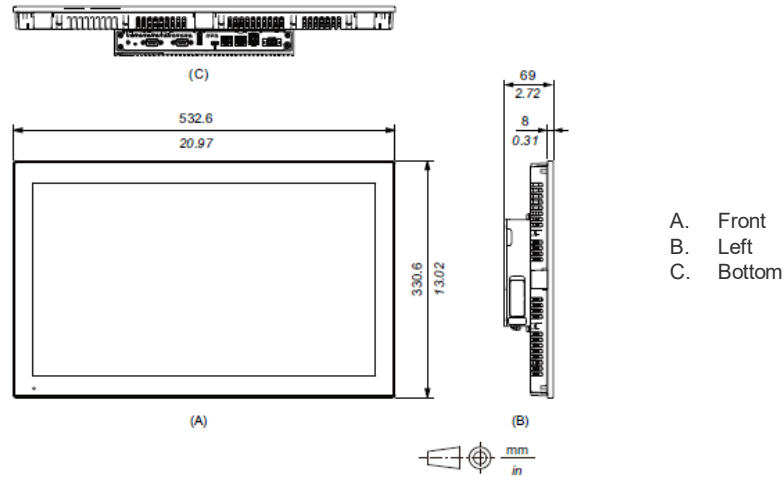
# Basic Model

P S 6 0 0 0 Series

## Dimensions

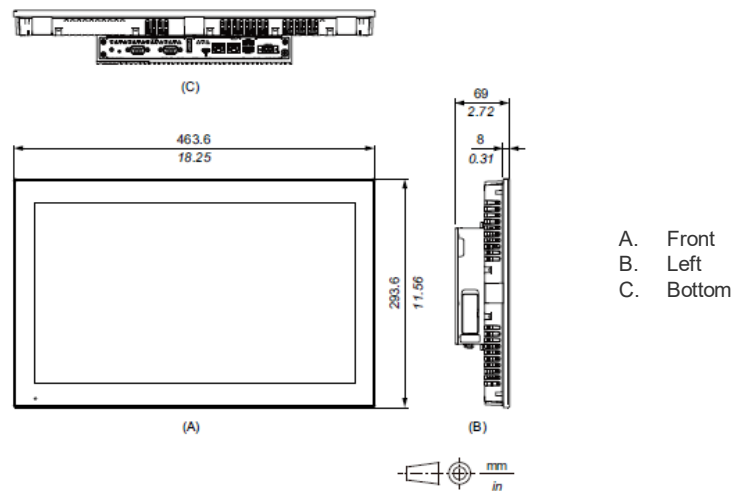
### ■ 22-inch Wide Basic Model

#### External Dimensions



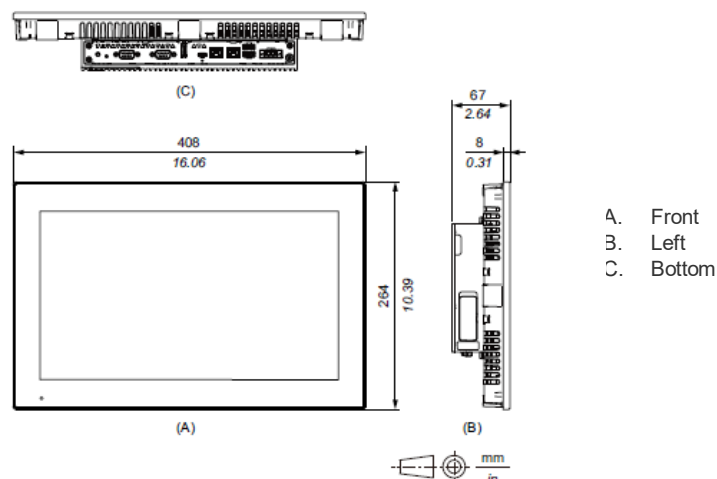
### ■ 19-inch Wide Basic Model

#### External Dimensions



### ■ 15-inch Wide Basic Model

#### External Dimensions

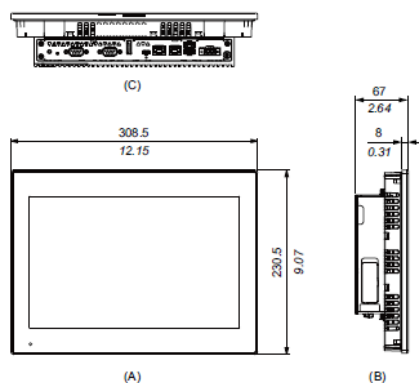


## Basic Model

### P S 6 0 0 0 Series

#### 12-inch Wide Advanced Model

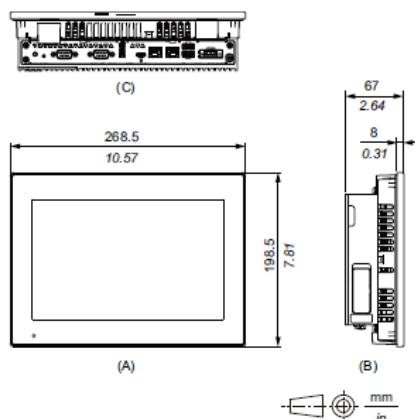
##### External Dimensions



- A. Front
- B. Left
- C. Bottom

#### 10-inch Wide Basic Model

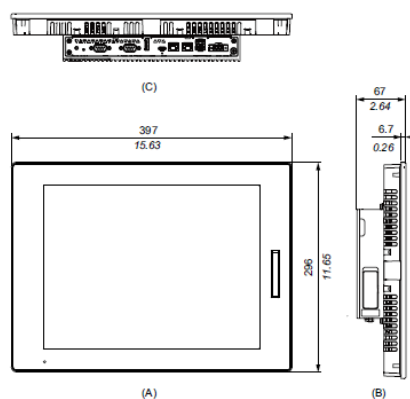
##### External Dimensions



- A. Front
- B. Left
- C. Bottom

#### 15-inch Basic Model

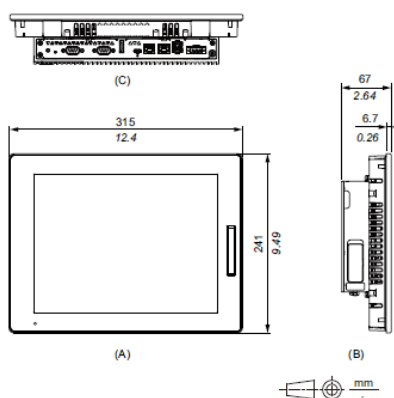
##### External Dimensions



- A. Front
- B. Left
- C. Bottom

#### 12-inch Basic Model

##### External Dimensions



- A. Front
- B. Left
- C. Bottom

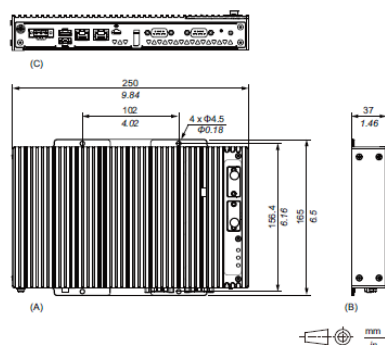
# Basic Model

## P S 6 0 0 0 Series

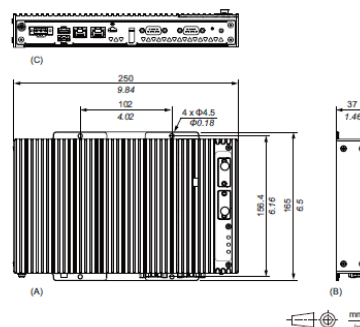
## Panel Type Installation

### Basic Box

#### External Dimensions



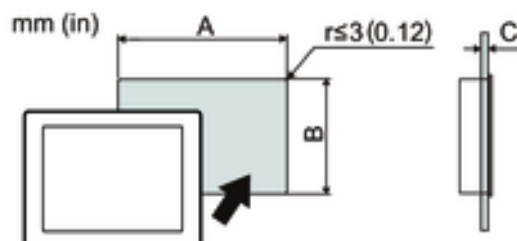
A. Front  
B. Left  
C. Bottom



A. Front  
B. Left  
C. Bottom

### Panel Cut Dimensions

Based on the panel cut dimensions, open a mount hole on the panel.



| Model Name                                      |                                                 |                            |
|-------------------------------------------------|-------------------------------------------------|----------------------------|
| A                                               | B                                               | C                          |
| <b>12-inch</b>                                  |                                                 |                            |
| 301.5 mm (+1/-0 mm)<br>(11.87 in [+0.04/-0 in]) | 227.5 mm (+1/-0 mm)<br>(8.96 in [+0.04/-0 in])  | 1.6...5 mm (0.06...0.2 in) |
| <b>15-inch</b>                                  |                                                 |                            |
| 383.5 mm (+1/-0 mm)<br>(15.1 in [+0.04/-0 in])  | 282.5 mm (+1/-0 mm)<br>(11.12 in [+0.04/-0 in]) | 1.6...5 mm (0.06...0.2 in) |
| <b>10-inch Wide</b>                             |                                                 |                            |
| 255 mm (+1/-0 mm)<br>(10.04 in [+0.04/-0 in])   | 185 mm (+1/-0 mm)<br>(7.28 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>12-inch Wide</b>                             |                                                 |                            |
| 295 mm (+1/-0 mm)<br>(11.61 in [+0.04/-0 in])   | 217 mm (+1/-0 mm)<br>(8.54 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>15-inch Wide</b>                             |                                                 |                            |
| 394 mm (+1/-0 mm)<br>(15.51 in [+0.04/-0 in])   | 250 mm (+1/-0 mm)<br>(9.84 in [+0.04/-0 in])    | 1.6...5 mm (0.06...0.2 in) |
| <b>19-inch Wide</b>                             |                                                 |                            |
| 449.5 mm (+1/-0 mm)<br>(17.7 in [+0.04/-0 in])  | 279.5 mm (+1/-0 mm)<br>(11.0 in [+0.04/-0 in])  | 1.6...5 mm (0.06...0.2 in) |
| <b>22-inch Wide</b>                             |                                                 |                            |
| 518.5 mm (+1/-0 mm)<br>(20.41 in [+0.04/-0 in]) | 316.5 mm (+1/-0 mm)<br>(12.46 in [+0.04/-0 in]) | 1.6...5 mm (0.06...0.2 in) |