

WNAI-E800

Intel® 14th Gen Core™ Processor with NVIDIA® RTX™ GPU Industrial Edge AI

Computer



KEY FEATURES

- Supports Intel® 14th generation Raptor Lake S processor (LGA 1700)
- Supports single NVIDIA RTX™ 2000 Ada/4060/4070/4000 Ada/6000 Ada GPU
- Up to 2 x 262pin SODIMM DDR5 5600MHz up to 96GB(48GB per Slot)
- 3 x Intel 2.5 Gigabit LAN. Optional additional 4 Gigabit LAN.
- Supports Two display, 1 x HDMI 2.0, 1 x DP 1.4a
- Supports Intel® vPro
- Rugged Design, -40°C to 60°C operation (Optional)

INTRODUCTION

Winmate Edge AI Computing empowers industries with advanced AIoT capabilities by combining powerful processors, integrated AI acceleration, and robust connectivity. Designed for diverse applications such as manufacturing, healthcare, and smart cities, it supports seamless cloud integration and AI-assisted analytics for real-time insights. With optional support for Intel®, Hailo AI chips, and NVIDIA GPUs, along with low-latency AI inferencing and rugged designs, Winmate's solutions offer scalability, efficiency, and adaptability, redefining performance standards for AI-driven industrial IoT.

SPECIFICATIONS

System Specification

Processor	Intel® Core™ i7-14700T(up to 5.2GHz) Intel® Core™ i9-14900T(up to 5.5GHz) (Optional)	Chipset	Intel® R680E
Memory	SO-DIMM, DDR5 4800 MHz, 8+8GB 16+16GB (Optional) 32+32GB (Optional)	Storage	1 x M.2 2280 M-Key NVMe SSD 256GB 512GB (Optional) 1TB (Optional) 2TB (Optional) 4TB 2 x SATA III for 2.5" SSD/HDD(RAID support) (Optional)
Ethernet controller	3 x Intel® 2.5 Gigabit Ethernet Controller	Security	TPM 2.0
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional) Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 24.04(Do not support Wake on Touch) (Optional)	WLAN	Support (Optional)
BT	Support (Optional)	Graphic Card	NVIDIA® RTX 4000 Ada 20 GB Graphic Card (Optional) NVIDIA® RTX 4000 SFF Ada 20GB Graphic Card (Optional) NVIDIA® RTX 2000 Ada 16GB Graphic Card (Optional) NVIDIA® GeForce RTX 4070 Graphic Card (Optional) NVIDIA® GeForce RTX 4060 8GB Graphic Card (Optional)

Mechanical

Dimension	323.5 x 230 x 200 mm	Weight	7.85kg
Mounting	Desk mount	Enclosure	Metal Housing
Cooling System	Fan Design		

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	-10°C to 50°C -40°C to 60°C (Optional)
Storage Temperature	-20°C to 60°C -40°C to 70°C (Optional)		

Certification

Certification	CE, FCC
----------------------	---------

IO Ports

Power Input	1 x 3 Pin AC Plug	USB Port	6 x USB3.2 Gen 2x1 (Type-A)
Serial Port	2 x RS232/422/485 (Default RS232)	SIM Card Slot	1 x nano SIM slot
Video	1 x DP1.4a DP++ , Max resolution up to 4096x2160@60Hz 1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)	Audio	Mic in Line out
Expansion Port	1 x M.2 2280 M-Key Slot (for NVME SSD) 1 x M.2 2230 E-Key Slot (for Wi-Fi module) 1 x M.2 3042/3052 B-Key Slot (for WWAN module) 1 x PCIe 4.0 (x16) slot 1 x PCIe 4.0 (x4) slot 1 x PCIe 4.0 (x8) slot(Only available when PCIe x16 signal is not present) 1 x Swappable 2.5" HDD/SSD Slot (Optional)	LAN	3 x 2.5 Giga LAN RJ45 Connector
DIDO	Digital input: 8ch dry contact DI0 ~ DI7, 1.5kV Isolation Logic 1 : Open ; Logic 0 : close to GND Digital output: 8ch DO0 ~ DO7, 1.5kV Isolation, 20mA max/channel by internal com 12V or 5V		

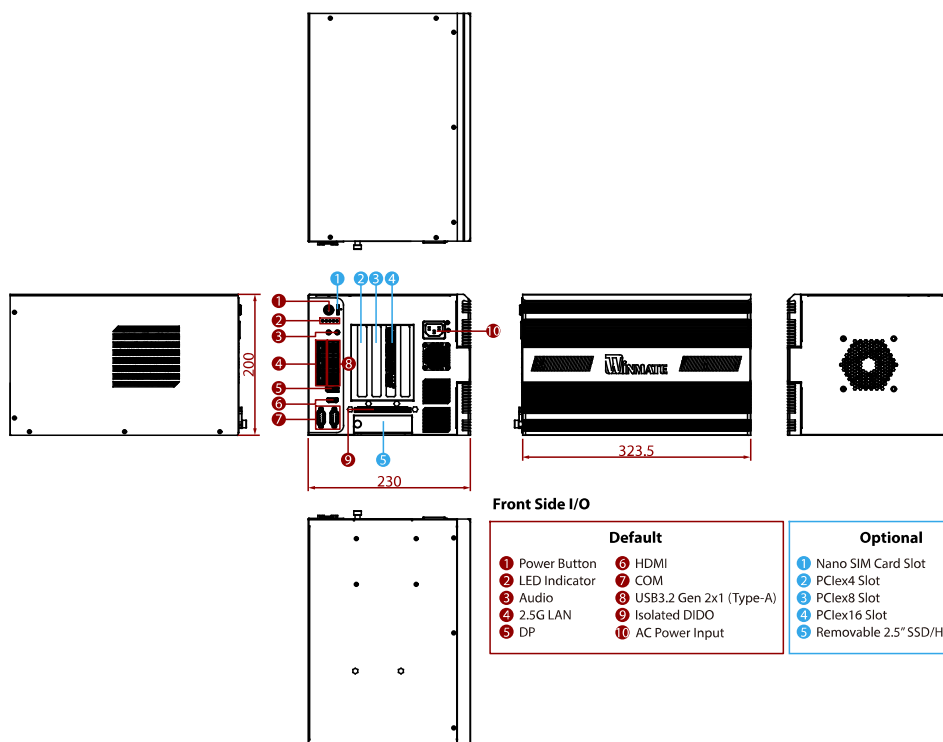
Control

Button	1 x Power Button with LED Indicator 1 x Clear CMOS Button
---------------	--

Accessory

Accessory	Power Cord
------------------	------------

DIMENSIONS UNIT:MM



NOTE

- 1.This is a simplified drawing and some components are not marked in detail.
- 2.Please contact our sales representative if you need further product information.
- 3.All specifications are subject to change without prior notice.
- 4.The product shown in this datasheet is a standard model.For diagrams that contain customized or optional I/ O, please contact the Winmate Sales Team for more information.