

### product type designation



### Reader RF615R CMIIT

SIMATIC RF600 Reader RF615R CMIIT; Interfaces: 1 Ethernet / PROFINET M12; 1 integrated antenna + 1 ext. antenna port; 1 dig. input, 1 dig. output; 24 V DC; IP67; -25 to +55 °C without accessories.

### suitability for operation

RF600 Transponder, for direct connection to Ethernet, PROFINET, EtherNet/IP or PROFIBUS via communication module, OPC UA server integrated

### radio frequencies

operating frequency	920 ... 925 MHz
transmit power	3 ... 400 mW
effective radiated power	
<ul style="list-style-type: none"> <li>for each external antenna / maximum</li> <li>minimum</li> <li>maximum</li> </ul>	1100 mW 10 mW 200 mW
range / maximum	4 m; With the internal antenna 1.6 m, extended ranges possible, see RF600 System Manual, range table: <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
protocol / with radio transmission	EPCglobal Class 1 Gen 2 V2 / ISO/IEC 18000-62/-63
transfer rate / with radio transmission / maximum	400 kbit/s
product feature / multitag-capable	Yes
polarization	circular

### electrical data

transmission time / for user data	
<ul style="list-style-type: none"> <li>for write access / per byte / typical</li> <li>for read access / per byte / typical</li> </ul>	2 ms 0.15 ms

### interfaces

number of external antennas	1
standard for interfaces / for communication	Ethernet, PROFINET, OPC UA, EtherNet/IP, RS422
type of electrical connection	
<ul style="list-style-type: none"> <li>for external antenna(s)</li> <li>for supply voltage</li> <li>for communications interface</li> <li>at the digital inputs/outputs</li> </ul>	RP-TNC M12, 8-pin, connector M12, 4-pin, d-coded M12, 5-pin, female connector
number of digital inputs	1
number of digital outputs	1

### mechanical data

material	Pocan
color	silver, TI-Grey
mounting distance / relating to metal surfaces / recommended / minimum	0 mm

### supply voltage, current consumption, power loss

supply voltage	
<ul style="list-style-type: none"> <li>at DC / rated value</li> <li>at DC</li> </ul>	24 V 20 ... 30 V
consumed current / at DC	

<ul style="list-style-type: none"> <li>• at 24 V / typical</li> <li>• at 24 V / maximum</li> </ul>	<p>0.2 A</p> <p>0.22 A</p>
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	<p>-25 ... +55 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
ambient condition / for operation	With operating temperature below -20 °C: Warming-up time at least 10 minutes
protection class IP	IP67
shock resistance	EN 60068-2-27, EN 60068-2-6
shock acceleration	250 m/s <sup>2</sup>
vibrational acceleration	30 m/s <sup>2</sup>
resistance to mechanical stress	The maximum values for shock and vibration acceleration must not occur as continuous stress and they apply exclusively to assembly using screws
<b>design, dimensions and weights</b>	
width	133 mm
height	133 mm
depth	45 mm
net weight	0.37 kg
fastening method	Vesa 100 with 4 x M4 screws
wire length	
<ul style="list-style-type: none"> <li>• of antenna cable / minimum</li> <li>• of antenna cable / maximum</li> </ul>	<p>1 m</p> <p>40 m</p>
<b>product features, product functions, product components / general</b>	
display version	LED bars with 6 LED and 1 circulating LED
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
protocol / is supported	
<ul style="list-style-type: none"> <li>• LLDP</li> <li>• PROFINET IO protocol</li> <li>• TCP/IP</li> <li>• SNMP v1</li> <li>• SNMP v2</li> <li>• SNMP v3</li> <li>• DCP</li> <li>• EtherNet/IP protocol</li> <li>• OPC UA</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	wireless acc. to CMIIT, OPC UA: embedded UA Server Profile
certificate of suitability	
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	No
MTBF	29 a
<b>accessories</b>	
accessories	One external antenna
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a></p> <p><a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

last modified:

8/29/2023 