

### product type designation



### Reader RF650R ETSI

SIMATIC RF600 Reader RF650R ETSI; Interface Ethernet RJ45, 4 antennas, 4 dig. inputs/ 4 dig. outputs, 24 V DC; IP30; -25 to +55 °C; without accessories and antennas.

suitability for operation

RF600 transponder, for connecting via Ethernet, OPC UA server integrated

### radio frequencies

operating frequency	865 ... 868 MHz
transmit power	3 ... 1000 mW
effective radiated power	
• for each external antenna / maximum	2000 mW
range / maximum	8 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

### electrical data

transmission time / for user data	
• for write access / per byte / typical	2 ms
• for read access / per byte / typical	0.15 ms

### interfaces

number of external antennas	4
standard for interfaces / for communication	Ethernet, OPC UA
type of electrical connection	
• for external antenna(s)	RP-TNC
• for supply voltage	M12, 8-pin, connector
• for communications interface	RJ45
• at the digital inputs/outputs	M12, 12-pin, female connector
number of digital inputs	4
number of digital outputs	4

### mechanical data

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

### supply voltage, current consumption, power loss

supply voltage	
• at DC / rated value	24 V
• at DC	20 ... 30 V
consumed current / at DC	
• at 24 V / typical	0.37 A
• at 24 V / maximum	2 A

### ambient conditions

ambient temperature	
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<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-25 ... +55 °C
	-40 ... +85 °C
	-40 ... +85 °C
ambient condition / for operation	With operating temperature below -20 °C: Warming-up time at least 10 minutes
protection class IP	IP30
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

#### design, dimensions and weights

width	258 mm
height	258 mm
depth	80 mm
net weight	2.4 kg
fastening method	Vesa 100 with 4 x M4 screws, top-hat rail 35 mm, profile rail S7-300, S7-1200 or S7-1500
wire length	
<ul style="list-style-type: none"> <li>of antenna cable / minimum</li> <li>of antenna cable / maximum</li> </ul>	1 m 40 m

#### product features, product functions, product components / general

display version	LED row with 6 LEDs
protocol / is supported / Media Redundancy Protocol (MRP)	No
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>	Yes No Yes Yes No No Yes No Yes
product feature / silicon-free	Yes

#### standards, specifications, approvals

certificate of suitability	wireless according to RED directive, CE, IEC 60950, OPC UA: embedded UA Server Profile
certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
MTBF	31 a

#### accessories

accessories	up to 4 external antennas, set for mounting on top-hat rail or profile rail
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#### further information / internet links

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>	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a> <a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

last modified: 8/29/2023 