

### product type designation



### Reader RF650R CMIIT

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

Technical Product Detail Page

<https://l.siemens.com/1P6GT2811-6AB20-2AA0>

suitability for operation

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

### radio frequencies

operating frequency	920 ... 925 MHz
transmit power	3 ... 1000 mW
effective radiated power <ul style="list-style-type: none"> <li>• for each external antenna / maximum</li> </ul>	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 <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
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### interfaces

number of external antennas	4
standard for interfaces / for communication	Ethernet, OPC UA
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 RJ45 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 <ul style="list-style-type: none"> <li>• rated value</li> <li>•</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>	0.37 A 2 A

ambient conditions	
ambient temperature	
<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 Yes Yes No Yes
product feature / silicon-free	Yes
product functions / management, configuration, engineering	
type of parameterization	WBM
type of programming	OPC UA, XML
type of computer-switched communication	TCP/IP
standards, specifications, approvals	
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	31 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO <sub>2</sub> eq]	
<ul style="list-style-type: none"> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	313.9 kg 71.5 kg 241.53 kg 0.87 kg
accessories	
accessories	up to 4 external antennas, set for mounting on top-hat rail or profile rail
further information / internet links	
internet link	

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to web page: RFID country approval
- to web page: identification and localization systems
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://support.industry.siemens.com/cs/ww/en/view/109766358>
- <https://www.siemens.com/tstcloud>
- <https://www.siemens.com/rfid-approvals>
- <https://www.siemens.com/ident>
- <https://sieportal.siemens.com/>
- <https://www.automation.siemens.com/bilddb>
- <https://www.siemens.com/cax>
- <https://support.industry.siemens.com>

### security information

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### Approvals / Certificates

General Product Approval

EMV



[China RoHS](#)



[Declaration of Conformity](#)

[KC](#)

Radio Equipment Type Approval Certificate

Environment

[Miscellaneous](#)



last modified:

11/13/2025