



SIMATIC RF600 Reader RF695R CMITT; interface Ethernet RJ45 PoE 8 antennas, 1 digital input/ 1 digital output, 24 V DC; -25 to +55 °C; without accessories and antennas.

suitability for operation

RFID high-performance reader for use in the warehouse environment for recording high flows of goods.

### radio frequencies

operating frequency	920 ... 925 MHz
transmit power	3 ... 2000 mW
equivalent isotropically radiated power <ul style="list-style-type: none"> <li>• for each external antenna / maximum</li> </ul>	4000 mW
range / maximum	10 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
transfer rate / with radio transmission / maximum	640 kbit/s
product feature / multitag-capable	Yes

### interfaces

number of external antennas	8
standard for interfaces / for communication	Ethernet, OPC UA, XML
type of electrical connection <ul style="list-style-type: none"> <li>• for external antenna(s)</li> <li>• for supply voltage</li> <li>• at the digital inputs/outputs</li> </ul>	RP-TNC terminal block, 4-pole RJ45 connector (8-pole)
number of digital inputs	1
number of digital outputs	1

### mechanical data

material	Lexan
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>	2 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	IP33
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	245 mm
height	209 mm
depth	41 mm
net weight	1.4 kg
fastening method	Vesa 100 with 4 screws, DIN rail, mounting hole 4 x M4 screws
wire length	
• of antenna cable / minimum	1 m
• of antenna cable / maximum	40 m
<b>product features, product functions, product components / general</b>	
display version	3 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	
• LLDP	No
• PROFINET IO protocol	No
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	Yes
• DCP	Yes
• EtherNet/IP protocol	No
• OPC UA	Yes
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	
• IECEx	No
MTBF	28 a
reference code	
• according to IEC 81346-2:2019	BYB
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	289.45 kg
• during manufacturing	40 kg
• during operation	249 kg
• after end of life	0.45 kg
<b>accessories</b>	
accessories	up to 8 external antennas, DIN and mounting rail attachment set
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: RFID country approval	<a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a>
• to web page: identification and localization systems	<a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and

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**Approvals / Certificates**

<b>General Product Approval</b>	<b>Radio Equipment Type Approval Certificate</b>	<b>Environment</b>
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[Miscellaneous](#)

[Confirmation](#)



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