



SIMATIC RF600 Reader RF690R FCC; Ethernet RJ45 PoE 4 antennas, 1 DI/DQ, 24 V DC; -25 to +55 °C; without accessories and antennas.

Technical Product Detail Page

<https://i.siemens.com/1P6GT2811-7AD20-1AA0>

suitability for operation

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

### radio frequencies

operating frequency	902 ... 928 MHz
transmit power	3 ... 2000 mW
effective radiated power	
• for each external antenna / maximum	2000 mW
equivalent isotropically radiated power	
• for each external antenna / maximum	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	4
standard for interfaces / for communication	Ethernet, OPC UA, XML
type of electrical connection	
• for external antenna(s)	RP-TNC
• for supply voltage	terminal block, 4-pole
• at the digital inputs/outputs	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	
• rated value	24 V
•	20 ... 30 V
consumed current / at DC	
• at 24 V / typical	2 A
• at 24 V / maximum	2 A

### ambient conditions

ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-40 ... +85 °C

<ul style="list-style-type: none"> <li>during transport</li> </ul>	-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	1.3 kg
fastening method	Vesa 100 with 4 screws, DIN rail, mounting hole 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>	1 m 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	
<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>	No No Yes Yes No Yes Yes No Yes
product feature / silicon-free	Yes
<b>product functions / management, configuration, engineering</b>	
type of parameterization	WBM
type of programming	OPC UA, XML
type of computer-switched communication	TCP/IP
<b>standards, specifications, approvals</b>	
certificate of suitability	wireless according to FCC, IC (Canada), cULus, OPC UA: embedded UA Server Profile
certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
MTBF	28 a
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
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>	289.45 kg 40 kg 249 kg 0.45 kg
<b>accessories</b>	
accessories	up to 4 external antennas, set for mounting on top-hat rail or profile rail
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to web page: RFID country approval</li> <li>to web page: identification and localization systems</li> <li>to web page: SiePortal</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a> <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>

- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<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

Radio Equipment Type Approval Certificate

[China RoHS](#)



[Miscellaneous](#)

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## Environment



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