



SIMATIC RF600 Reader RF690R FCC; Ethernet RJ45 PoE 4 antennas, 1 DI/DQ, 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	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: http://support.automation.siemens.com/WW/view/en/67384964
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
• during transport	-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 ²
vibrational acceleration	30 m/s ²
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	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	
• of antenna cable / minimum	1 m
• of antenna cable / maximum	40 m
product features, product functions, product components / general	
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
standards, specifications, approvals	
certificate of suitability	wireless according to FCC, IC (Canada), cULus, OPC UA: embedded UA Server Profile
certificate of suitability	
• IECEx	No
MTBF	28 a
reference code	
• according to IEC 81346-2:2019	BYB
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
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	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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 networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or

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Approvals / Certificates

General Product Approval	Radio Equipment Type Approval Certificate	Environment
	Miscellaneous ECC	Confirmation 

last modified:

2/18/2025 