



SIMATIC RF600 Reader RF695R ETSI; Ethernet RF45 PoE 8 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	865 ... 868 MHz
transmit power	3 ... 2000 mW
equivalent isotropically radiated power <ul style="list-style-type: none"> • 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	8
standard for interfaces / for communication	Ethernet, OPC UA, XML
type of electrical connection <ul style="list-style-type: none"> • for external antenna(s) • for supply voltage • at the digital inputs/outputs 	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"> • rated value • 	24 V 20 ... 30 V
consumed current / at DC <ul style="list-style-type: none"> • at 24 V / typical • at 24 V / maximum 	2 A 2 A

ambient conditions

ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	-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 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	1.4 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

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 RED directive, CE, IEC 60950, 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
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accessories

accessories	up to 8 external antennas, DIN and mounting rail attachment set
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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 network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions
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Approvals / Certificates

General Product Approval	Radio Equipment Type Approval Certificate	Environment
   	Miscellaneous	Confirmation

Environment



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