



SIMATIC RF600 Reader RF695R ETSI; Ethernet RF45 PoE 8 antennas, 1 DI/DQ, 24 V DC; -25 to +55 °C; without accessories and antennas.

Technical Product Detail Page

<https://i.siemens.com/1P6GT2811-7DD20-0AA0>

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 | |
| • 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 | |
| • 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 | 1.4 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 |
| 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 according to RED directive, CE, IEC 60950, OPC UA: embedded UA Server Profile |
| certificate of suitability | |
| • IECEx | No |
| MTBF | 28 a |
| standards, specifications, approvals / Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| global warming potential [CO ₂ eq] | |
| • total | 289.45 kg |
| • during manufacturing | 40 kg |
| • during operation | 249 kg |
| • after end of life | 0.45 kg |
| accessories | |
| accessories | up to 8 external antennas, DIN and mounting rail attachment set |
| 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 |

security information

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Approvals / Certificates

General Product Approval



[China RoHS](#)



[TUEV](#)

[Type Examination Certificate](#)

Radio Equipment Type Approval Certificate

Environment

[Miscellaneous](#)



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