

product type designation



Reader RF610R CMIIT

SIMATIC RF600 Reader RF610R CMIIT; Interfaces: 1 Ethernet / PROFINET M12; 1 integrated antenna; 24 V DC; IP67; -25 to +55 °C without accessories.

Technical Product Detail Page

<https://i.siemens.com/1P6GT2811-6BC10-2AA0>

suitability for operation

RF600 Transponder, for direct connection to Ethernet, PROFINET, EtherNet/IP or PROFIBUS via communication module, OPC UA server integrated

radio frequencies

| | |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operating frequency | 920 ... 925 MHz |
| effective radiated power | |
| • minimum | 10 mW |
| • maximum | 200 mW |
| range / maximum | 1.6 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/-63 |
| transfer rate / with radio transmission / maximum | 400 kbit/s |
| product feature / multitag-capable | Yes |
| polarization | circular |

electrical data

| | |
|-----------------------------------------|---------|
| transmission time / for user data | |
| • for write access / per byte / typical | 2 ms |
| • for read access / per byte / typical | 0.15 ms |

interfaces

| | |
|---------------------------------------------|------------------------------------------------|
| standard for interfaces / for communication | Ethernet, PROFINET, OPC UA, EtherNet/IP, RS422 |
| type of electrical connection | |
| • for supply voltage | M12, 8-pin, connector |
| • for communications interface | M12, 4-pin, d-coded |

mechanical data

| | |
|------------------------------------------------------------------------|-----------------|
| material | Pocan |
| 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 | 0.2 A |
| • at 24 V / maximum | 0.22 A |

ambient conditions

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



| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> 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 | IP67 |
| 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 | 133 mm |
| height | 133 mm |
| depth | 45 mm |
| net weight | 0.3 kg |
| fastening method | Vesa 100 with 4 x M4 screws |
| wire length | |
| <ul style="list-style-type: none"> of antenna cable / minimum of antenna cable / maximum | 1 m 40 m |
| product features, product functions, product components / general | |
| display version | LED bars with 6 LED and 1 circulating LED |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product function / of the PROFINET IO device / is supported / H-Sync forwarding | No |
| protocol / is supported | |
| <ul style="list-style-type: none"> LLDP PROFINET IO protocol TCP/IP SNMP v1 SNMP v2 SNMP v3 DCP EtherNet/IP protocol OPC UA | Yes Yes Yes Yes No Yes Yes Yes Yes |
| product feature / silicon-free | Yes |
| product functions / management, configuration, engineering | |
| type of parameterization | HSP, GSDML, EDS, TO, WBM |
| type of programming | Ident profile, library with functions, OPC UA, XML |
| type of computer-switched communication | acyclic communication, TCP/IP |
| standards, specifications, approvals | |
| certificate of suitability | wireless acc. to CMIIT, OPC UA: embedded UA Server Profile |
| certificate of suitability | |
| <ul style="list-style-type: none"> IECEX | No |
| MTBF | 29 a |
| product function / is supported / identification link | Yes; acc. to IEC 61406-1:2022 |
| standards, specifications, approvals / Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| global warming potential [CO ₂ eq] | |
| <ul style="list-style-type: none"> total during manufacturing during operation after end of life | 204.34 kg 71.5 kg 131.97 kg 0.87 kg |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: RFID country approval to web page: identification and localization systems to web page: SiePortal to website: Image database to website: CAx-Download-Manager | https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/rfid-approvals https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax |

security information

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Approvals / Certificates

| General Product Approval | EMV | Radio Equipment Type Approval Certificate |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  China RoHS |  | Declaration of Conformity KC Miscellaneous |

| Environment | Industrial Communication |
|-------------------------------------------------------------------------------------|--------------------------|
|  | PROFINET |

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11/13/2025 