

Product type designation

Reader RF680R ETSI

SIMATIC RF600 READER RF680R ETSI; INTERFACES:
ETHERNET M12, PROFINET M12, 4 ANTENNAS, 4 DIG. INPUTS/
4 DIG. OUTPUTS, 24 V DC; IP65; -25 UP TO +55 DGR/C; W/O
ACCESSORIES AND ANTENNAS



Wireless frequencies

| | |
|---|-----------------|
| Operating frequency | 865 ... 868 MHz |
| Transmit power | 3 ... 2000 mW |
| Effective radiant power | |
| <ul style="list-style-type: none"> • for each external antenna / maximum | 2000 mW |

Electrical data

| | |
|---|------------|
| Range / maximum | 8 m |
| Transfer rate / with radio transmission / maximum | 400 kbit/s |
| Product feature / multitag-capable | Yes |
| Transmission time / for user data | |
| <ul style="list-style-type: none"> • for write access / per byte / typical | 2 ms |
| <ul style="list-style-type: none"> • for read access / per byte / typical | 0.15 ms |

Interfaces

| | |
|---|-----------------------|
| Number of external antennas | 4 |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for external antenna(s) | RP-TNC |
| <ul style="list-style-type: none"> • for supply voltage | M12, 8-pin, connector |

| | |
|---|--|
| <ul style="list-style-type: none"> • for communications interface | 2 x M12 4-pin D-coded, M12 8-pin (RS422) |
| <ul style="list-style-type: none"> • at the digital inputs/outputs | M12, 12-pin, female connector |
| Number of digital inputs | 4 |
| Number of digital outputs | 4 |

Mechanical data

| | |
|--|-----------------|
| Material | Aluminum, Pocan |
| Color | silver, TI-Grey |
| Mounting distance / relating to metal surfaces / recommended / minimum | 0 mm |

Supply voltage, current consumption, power loss

| | |
|---|-------------|
| Supply voltage | |
| <ul style="list-style-type: none"> • at DC / Rated value | 24 V |
| <ul style="list-style-type: none"> • at DC | 20 ... 30 V |
| Consumed current / at DC / at 24 V | |
| <ul style="list-style-type: none"> • typical | 0.38 A |
| <ul style="list-style-type: none"> • maximum | 2 A |

Permitted ambient conditions

| | |
|--|--|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +55 °C |
| <ul style="list-style-type: none"> • 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 | IP65 |
| Shock resistance | EN 60068-2-27, EN 60068-2-6 |
| Shock acceleration | 500 m/s ² |
| Vibrational acceleration | 200 m/s ² |

Design, dimensions and weight

| | |
|--|--|
| Width | 258 mm |
| Height | 258 mm |
| Depth | 80 mm |
| Net weight | 2.4 kg |
| Mounting type | Vesa 100 with 4 x M4 screws, top-hat rail 35 mm, profile rail S7-300, S7-1200 or S7-1500 |
| Wire length | |
| <ul style="list-style-type: none"> • of antenna cable / minimum | 1 m |
| <ul style="list-style-type: none"> • of antenna cable / maximum | 40 m |

Product properties, functions, components / general

| | |
|--------------------------------|--------------------------------|
| Display version | two LED rows with 8 and 9 LEDs |
| Product feature / silicon-free | Yes |

Standards, specifications, approvals

| | |
|----------------------------|--|
| Certificate of suitability | Wireless according to R&TTE guideline, CE, IEC 60950 |
| MTBF | 28 y |

Accessories

| | |
|-------------|---|
| accessories | up to 4 external antennas, set for mounting on top-hat rail or profile rail |
|-------------|---|

Further Information / Internet Links

| | |
|--|---|
| Internet-Link | |
| <ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support | https://support.industry.siemens.com/cs/ww/en/view/67384964 http://www.siemens.com/ident/rfid https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com |

last modified: 04/13/2017