SIEMENS

Data sheet

6GT2811-6AA10-1AA0

product type designation



Reader RF680R FCC

SIMATIC RF600 Reader RF680R FCC; Interfaces Ethernet M12, PROFINET M12, 4 antennas, 4 dig. inputs/ 4 dig. outputs, 24 V DC; IP65; -25 to +55 °C; without accessories and antennas.

suitability for operation

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

radio frequencies	of Fixor 1500 via communication module, of 5 0 A server integrated
operating frequency	902 928 MHz
transmit power	3 2000 mW
equivalent isotropically radiated power	3 2000 HIVV
for each external antenna / maximum	4000 mW
range / maximum	8 m; Extended ranges possible, see RF600 System Manual, Range table:
range / maximum	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
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	
number of external antennas	4
standard for interfaces / for communication	Ethernet, PROFINET, OPC UA, EtherNet/IP, RS422
type of electrical connection	
for external antenna(s)	RP-TNC
 for supply voltage 	M12, 8-pin, connector
 for communications interface 	2 x M12 4-pin D-coded, M12 8-pin (RS422)
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	
• at DC / rated value	24 V
• at DC	20 30 V
consumed current / at DC	
• at 24 V / typical	0.38 A
• at 24 V / maximum	2 A
ambient conditions	
ambient temperature	

-25 +55 °C
-40 +85 °C
-40 +85 °C
With operating temperature below -20 °C: Warming-up time at least 10 minutes
IP65
EN 60068-2-27, EN 60068-2-6
250 m/s²
30 m/s²
The maximum values for shock and vibration acceleration must not occur as continuous stress and they apply exclusively to assembly using screws
258 mm
258 mm
80 mm
2.4 kg
Vesa 100 with 4 x M4 screws, top-hat rail 35 mm, profile rail S7-300, S7-1200 or S7-1500
1 m
40 m
eral
two LED rows with 8 and 9 LEDs
Yes
No
Yes
Yes
Yes
Yes
No
No
Yes
Yes
Yes
Yes
wireless according to FCC, IC (Canada), cULus, OPC UA: embedded UA Server Profile
No
28 a
up to 4 external antennas, set for mounting on top-hat rail or profile rail
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: 8/18/2023 🖸