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	
Operating frequency	902 928 MHz
Transmit power	3 2000 mW
Equivalent isotropically radiated power	
• for each external antenna / maximum	4000 mW
Range / maximum	8 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

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						

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		
• 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	IP65
Shock resistance	EN 60068-2-27, EN 60068-2-6
Shock acceleration	500 m/s ²
Vibrational acceleration	200 m/s ²
Resistance to mechanical stress	The maximum stress of shock and vibration acceleration is guaranteed only in combination with the VESA mount

Design, dimensions and weights	
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

• of antenna cable / minimum

1 m

• of antenna cable / maximum

40 m

Product features, product functions, product components / general					
Display version	two LED rows with 8 and 9 LEDs				
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes				
Product function / of the PROFINET IO device / is supported / H-Sync forwarding	No				
Protocol / is supported					
• LLDP	Yes				
 PROFINET IO protocol 	Yes				
• TCP/IP	Yes				
• SNMP v1	Yes				
• SNMP v2	No				
• SNMP v3	No				
• DCP	Yes				
EtherNet/IP protocol	Yes				
• OPC UA	Yes				
Product feature / silicon-free	Yes				

Standards, specifications, approvals				
Certificate of suitability				
• IECEx	No			
MTBF	28 v			

а					

accessories

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

Further information / Internet-Links

Internet-Link

• 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

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