# **SIEMENS**

### **Data sheet**

## 6GT2811-6AA10-4AA0

#### product type designation



#### Reader RF680R ARIB

SIMATIC RF600 Reader RF680R ARIB; Interface 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	916 920 MHz
transmit power	3 1000 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	
<ul><li>for write access / per byte / typical</li></ul>	2 ms
<ul> <li>for read access / per byte / typical</li> </ul>	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	
<ul><li>for external antenna(s)</li></ul>	RP-TNC
<ul> <li>for supply voltage</li> </ul>	M12, 8-pin, connector
<ul> <li>for communications interface</li> </ul>	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 temperature

<ul> <li>during operation</li> </ul>	-25 +55 °C
during storage	-40 +85 °C
<ul> <li>during transport</li> </ul>	-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	250 m/s²
vibrational acceleration	30 m/s²
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	258 mm
height	258 mm
depth	80 mm
net weight	2.4 kg
fastening method	Vesa 100 with 4 x M4 screws, top-hat rail 35 mm, profile rail S7-300, S7-1200
iddioning motiod	or S7-1500
wire length	
• of antenna cable / minimum	1 m
of antenna cable / maximum	40 m
product features, product functions, product components / gen	eral
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-	No
Sync forwarding	
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	165
	wireless ass to ADID (CTD T106) ODC LIA: ambedded LIA Conver Profile
certificate of suitability certificate of suitability	wireless acc. to ARIB (STD-T106), OPC UA: embedded UA Server Profile
· ·	Al-
• IECEX	No
MTBF	28 a
accessories	
accessories	up to 4 external antennas, set for mounting on top-hat rail or profile rail
further information / internet links	
internet link	
to web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/ident/rfid
to website: Industry Mall	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
<ul><li>to website: CAx-Download-Manager</li></ul>	http://www.siemens.com/cax

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