SIEMENS

Data sheet 6GT2811-3BA00-1AA0

product type designation

RF640R FCC reader



- - spare part - - SIMATIC RF600 Reader RF640R FCC; with internal antenna; interfaces: Ethernet, 2 digital inputs/ 2 digital outputs, 24 V DC, 1 antenna (R-TNC) alternative to the internal antenna; IP65; -25 to +55 °C; without accessories.

product brand name	SIMATIC RF
suitability for operation	RF600 transponder, for connecting to Ethernet networks
radio frequencies	
operating frequency	902 ... 928 MHz
transmit power	50 ... 1250 mW
equivalent isotropically radiated power	
● for each external antenna / maximum	4000 mW
● minimum	100 mW
● maximum	3300 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 / ISO 18000-6C
transfer rate / with radio transmission / maximum	320 kbit/s
product feature / multitag-capable	Yes
polarization	Internal: circular, external: according to antenna
electrical data	
transmission time / for user data	
● for write access / per byte / typical	6.3 ms
● for read access / per byte / typical	1 ms
interfaces	
number of external antennas	1
standard for interfaces / for communication	Ethernet, PROFINET, EtherNet/IP, RS422
type of electrical connection	
● for external antenna(s)	RP-TNC
● for supply voltage	M12, 4-pin, female connector
● for communications interface	Push-pull RJ45
● at the digital inputs/outputs	M12, 8-pin, female connector
number of digital inputs	2
number of digital outputs	2
mechanical data	
material	Aluminum, ABS (GF20)
color	silver/anthracite
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

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consumed current / at DC	
● at 24 V / typical	0.45 A
● at 24 V / maximum	1.5 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/s²
vibrational acceleration	200 m/s²
design, dimensions and weights	
width	193 mm
height	252 mm
depth	52 mm
net weight	2.01 kg
fastening method	4 x M6 screws, Vesa 100 with 4 x M4 screws
wire length	
● of antenna cable / minimum	1 m
● of antenna cable / maximum	40 m
product features, product functions, product components / general	
display version	3-color LED
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Wireless according to FCC, IC (Canada), cULus
certificate of suitability	
● IECEx	No
MTBF	14 a
accessories	
accessories	optional: External antenna
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

Approvals / Certificates

General Product Approval				EMV	Radio Equipment Type Approval Certificate
EAC	China RoHS	Manufacturer Declaration	UL	KC	Industry Canada (IC)

Radio Equipment Type Approval Certificate

Miscellaneous	FCC	Miscellaneous

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