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.

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
consumed current / at DC	
● at 24 V / typical	0.45 A
● at 24 V / maximum	1.5 A

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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	
			KC	Industry Canada (IC)	Miscellaneous

Radio Equipment Type Approval Certificate	Environment
FCC	Confirmation

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