MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6GT2801-4BA10

RF350R GEN2 RFID READER

Used with the applicable SIMATIC RF300 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens RF350R 6GT2801-4BA10 data sheet, 13 September 2017; exact-model specifications.

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Data sheet 6GT2801-4BA10

Product type designation

RF350R reader

SIMATIC RF300 READER RF350R+ (GEN2) WITH RS422 INTERFACE (3964R) WITHOUT ANTENNA IP 65, -25 UP TO +70 DGR/C, 75 X 75 X 41 MM, OPERATES WITH: MOBY E ANT 1, 3, 12, 18, 30



Wireless frequencies	
Operating frequency / Rated value	13.56 MHz
Electrical data	
Range / maximum	140 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
Transfer rate / with radio transmission / maximum	106 kbit/s
Product feature / multitag-capable	No
Transfer rate / at the point-to-point connection / serial / maximum	115.2 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	0.13 ms
• for read access / per byte / typical	0.13 ms
Interfaces	
Number of external antennas	1
Standard for interfaces / for communication	RS422
Type of electrical connection	
• for external antenna(s)	M8, 4-pin
• for communications interface	M12, 8-pin

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Mechanical data	
Material	PA 12
Tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
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	20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
• typical	0.06 A

Permitted ambient conditions	
Ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Protection class IP	IP65
Shock resistance	EN 60721-3-7, Class 7 M2
Shock acceleration	500 m/s²
Vibrational acceleration	200 m/s²

Design, dimensions and weight	
Width	75 mm
Height	41 mm
Depth	75 mm
Net weight	0.25 kg
Mounting type	2 x M5 screws
Wire length	
• of antenna cable / fixed value	3 m
• for RS 422 interface / maximum	1000 m

Product properties, functions, components / general	
Product feature / silicon-free	Yes

Standards, specifications, approvals	
Certificate of suitability	Wireless according to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, UL/CSA
MTBF	260 y

Accessories	
accessories	Various antennas are available

Further Information / Internet Links	
Internet-Link	

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• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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