SIEMENS

Data sheet 6GT2821-5BC32

product type designation



RF250R reader IO-Link

SIMATIC RF200 Reader RF250R IO-Link interface V1.1; IP65, -25 to +70 °C, 50x 50x 30 mm, without antenna can be operated with: ANT 1, 3, 3NO, 8, 12, 18, 30; 32 byte IO; 230 Kbit/s

product brand name	SIMATIC RF
Technical Product Detail Page	https://i.siemens.com/1P6GT2821-5BC32
suitability for operation	ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.1
radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	60 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
protocol / with radio transmission	ISO 15693, ISO 18000-3
transfer rate / with radio transmission / maximum	26.5 kbit/s
product feature / multitag-capable	No
electrical data	
transfer rate / at the point-to-point connection / serial / maximum	230 kbit/s
transmission time / for user data	
● for write access / per byte / typical	3.3 ms
● for read access / per byte / typical	2.4 ms
data volume / of the address range of the inputs / total	32 byte
data volume / of the address range of the outputs / total	32 byte
interfaces	
number of external antennas	1
standard for interfaces / for communication	IO-Link V1.1
type of electrical connection	
● for external antenna(s)	M8, 4-pin
● for communications interface	M12, 4-pin
mechanical data	
material	PA6.6
color	anthracite
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
●	20.4 ... 28.8 V
consumed current / at DC	
● at 24 V / typical	0.05 A
ambient conditions	
ambient temperature	
● during operation	-20 ... +70 °C

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● during storage	-25 ... +80 °C
● during transport	-25 ... +80 °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 weights	
width	50 mm
height	30 mm
depth	50 mm
net weight	0.06 kg
fastening method	2 x M5 screws
wire length	
● between master and IO-Link device / maximum	20 m
product features, product functions, product components / general	
display version	3-color LED
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
● IECEx	No
MTBF	430 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	43.51 kg
● during manufacturing	10.7 kg
● during operation	32.51 kg
● after end of life	0.3 kg
accessories	
accessories	Various antennas are available
further information / internet links	
● internet link / to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● internet link / to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● internet link / to web page: RFID country approval	https://www.siemens.com/rfid-approvals
● internet link / to web page: identification and localization systems	https://www.siemens.com/ident
● internet link / to web page: SiePortal	https://sieportal.siemens.com/
● internet link / to website: Image database	https://www.automation.siemens.com/bilddb
● internet link / to website: CAx-Download-Manager	https://www.siemens.com/cax
● internet link / to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Approvals / Certificates

General Product Approval

China RoHS

General Product Approval	Radio Equipment Type Approval Certificate			Environment
Manufacturer Declaration	Miscellaneous	FCC	Miscellaneous	

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