

product type designation

RF210R reader IO-Link

SIMATIC RF200 reader RF210R IO-Link interface V1.1; IP67, -25 to +70 °C; M18x 83 mm; with integrated antenna 32 Byte IO; 230 Kbit/s



Technical Product Detail Page

<https://l.siemens.com/1P6GT2821-1BC32>

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

20 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
- for read access / per byte / typical

3.3 ms
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

standard for interfaces / for communication

IO-Link V1.1

type of electrical connection

M12, 4-pin

mechanical data

material

Brass, nickel-plated / PBT

color

silver/pastel turquoise

tightening torque / of the screw for securing the equipment / maximum

20 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
- during storage
- during transport

-20 ... +70 °C
-25 ... +80 °C
-25 ... +80 °C

protection class IP

IP67

shock resistance

EN 60721-3-7 Class 7 M2

shock acceleration	500 m/s ²
vibrational acceleration	200 m/s ²

design, dimensions and weights

height	83 mm
diameter	18 mm
net weight	0.065 kg
fastening method	2 nuts M18 x 1 (included in scope of supply)
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	505 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

further information / internet links

internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• 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

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	EMV
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[Manufacturer Declaration](#)

[China RoHS](#)

[KC](#)

Radio Equipment	Environment
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[Miscellaneous](#)



last modified:

11/13/2025