

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

Technical Product Detail Page

<https://l.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
- 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

number of external antennas

1

standard for interfaces / for communication

IO-Link V1.1

type of electrical connection

- for external antenna(s)
- for communications interface

M8, 4-pin
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
- during storage

-20 ... +70 °C
-25 ... +80 °C

<ul style="list-style-type: none"> during transport 	-25 ... +80 °C
protection class IP	IP65
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	
width	50 mm
height	30 mm
depth	50 mm
net weight	0.06 kg
fastening method	2 x M5 screws
wire length <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> IECEX 	No
MTBF	430 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq] <ul style="list-style-type: none"> total during manufacturing during operation after end of life 	43.51 kg 10.7 kg 32.51 kg 0.3 kg
accessories	
accessories	Various antennas are available
further information / internet links	
internet link <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: RFID country approval to web page: identification and localization systems to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/rfid-approvals https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax 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)
Approvals / Certificates	
General Product Approval	Radio Equipment Type Approval Certi-



[Manufacturer Declaration](#)

[China RoHS](#)

[Miscellaneous](#)

Radio Equipment
Type Approval Certificate

Environment

[ECC](#)



last modified:

11/13/2025