

### product type designation



### RF250R reader IO-Link

SIMATIC RF200 Reader RF250R IO-Link IO-Link interface without antenna IP65, -25 to +70 °C, 50x 50x 30 mm, can be operated with: ANT 1, 3, 3NO, 8, 12, 18, 30; 8 byte IO; 38.4 Kbit/s.

Technical Product Detail Page

<https://i.siemens.com/1P6GT2821-5AC32>

suitability for operation

ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.0

### 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

38.4 kbit/s

transmission time / for user data

- for write access / per byte / typical
- for read access / per byte / typical

40 ms  
40 ms

data volume / of the address range of the inputs / total

8 byte

data volume / of the address range of the outputs / total

8 byte

### interfaces

number of external antennas

1

standard for interfaces / for communication

IO-Link V1.0

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"> <li>during transport</li> </ul>	-25 ... +80 °C
protection class IP	IP65
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	500 m/s <sup>2</sup>
vibrational acceleration	200 m/s <sup>2</sup>
<b>design, dimensions and weights</b>	
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"> <li>between master and IO-Link device / maximum</li> </ul>	20 m
<b>product features, product functions, product components / general</b>	
display version	3-color LED
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
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"> <li>IECEX</li> </ul>	No
MTBF	430 a
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq] <ul style="list-style-type: none"> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	50.4 kg 10.7 kg 39.4 kg 0.3 kg
<b>accessories</b>	
accessories	Various antennas are available
<b>further information / internet links</b>	
internet link <ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to web page: RFID country approval</li> <li>to web page: identification and localization systems</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAX-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a> <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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<b>Approvals / Certificates</b>	
<b>General Product Approval</b>	



[China RoHS](#)

[Manufacturer Declaration](#)

EMV	Radio Equipment Type Approval Certificate			Environment
<a href="#">KC</a>	<a href="#">Miscellaneous</a>	<a href="#">FCC</a>	<a href="#">KC</a>	

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