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High power WLAN wireless transceiver (transmitter and receiver) with Ethernet, RS-232, RS-485/RS-422 interface, for 2400 MHz ISM band

Product Features

- Optional, integrated bus foot for connecting RAD-Line extension modules
- Using the integrated web browser interface, the devices can be configured as an access point, bridge or client
- Provides an interface for data transmission between older serial devices (RS-232, RS-422, and RS-485 interfaces) and an Ethernet network
- Operates in the license-free 2.4 GHz ISM band
- Provides an industrial 400 mW wireless transceiver
- In bridge mode, up to 40 nodes can be connected to a single network, creating a reliable wireless network
- Can be used as a Modbus RTU/TCP gateway
- Supports TCP/IP, UDP, and IPv4 protocols
- High level of security with 128/192/256-bit AES encryption according to 802.11i and optional 802.1x authentication can be set
- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	272.0 g
Country of origin	Canada

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.	
Dimensions		
Width	45 mm	



Technical data

Dimensions

Height	99 mm	
Depth	115 mm	
Ambient conditions		
Ambient temperature (operation)	-40 °C 70 °C	
Ambient temperature (storage/transport)	-40 °C 70 °C	
Degree of protection	IP20	
Wireless set		
Set contents	1 transceiver	
Wireless path		
Direction	Bi-directional	
Frequency range	2.4032 GHz 2.4799 GHz	
Transmission power	400 mW	
Serial interface		
Designation	RS-232	
Data rate	300 57,6 kBit/s	
Connection method	D-SUB-9 female connector	
File format/coding	Asynchronous	
Data flow control/protocols	RTS/CTS	
Designation	RS-485/RS-422	
Data rate	300 57,6 kBit/s	
Connection method	COMBICON plug-in screw terminal block	
Supply		
Supply voltage	24 V DC	
Supply voltage range	12 V DC 30 V DC	
Typical current consumption	230 mA	
Max. current consumption	280 mA	
Nominal power consumption	5.52 W	
General		
Mounting position	any	
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715	
Housing material	Polyamide PA non-reinforced	
Conformance	FCC Directive, Part 15.247	
	ISC Directive RSS 210	
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D	



Technical data

Standards and Regulations

Conformance	FCC Directive, Part 15.247	
	ISC Directive RSS 210	
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D	
Connection data		
Conductor cross section solid min.	0.2 mm ²	
Conductor cross section solid max.	4 mm ²	
Conductor cross section flexible min.	0.2 mm ²	
Conductor cross section flexible max.	2.5 mm ²	
Conductor cross section AWG min.	24	
Conductor cross section AWG max.	14	
Connection method	Screw connection	
Stripping length	8 mm	
Screw thread	M3	

Classifications

eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	19179290
eCl@ss 9.0	19179290

ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108



Classifications

UNSPSC

UNSPSC 13.2 43223108

Accessories

Accessories

Antenna

Antenna - RAD-ISM-2400-ANT-OMNI-2-1 - 2867461



Omnidirectional antenna, 2.4 GHz, 2 dBi, linear vertical, 1.5 m cable, MCX (male), IP65, 50 Ω impedance

Antenna - RAD-ISM-2400-ANT-VAN- 3-1-MCX - 2885702



Omnidirectional antenna with protection against vandalism, 2.4 GHz, 3 dBi gain, IP55 protection, 1.5 m cable length, MCX (male) connection, opening angle h/v 360°/85°. Appropriate mounting material is available for wall mounting.

Antenna - RAD-ISM-2400-ANT-OMNI-9-0 - 2867623



Omnidirectional antenna, 2.4 GHz, 9 dBi, linear vertical, N (female), IP65, 50 Ω impedance

Antenna - RAD-ISM-2400-ANT-PAN- 8-0 - 2867610



Panel antenna, degree of protection IP55, 8 dBi gain, linear vertical, SMA (female), impedance 50 ohms, apex angle h/v 75°/70°



Accessories

Antenna - RAD-ISM-2400-ANT-PAR-19-0 - 2867885



Parabolic antenna, IP65 degree of protection, 19 dBi gain, linear vertical, N (female) connection, impedance 50 Ω, apex angle h/v 17°/11°

Antenna - RAD-ISM-2400-ANT-OMNI-6-0 - 2885919

Omnidirectional antenna, 2.4 GHz, 6 dBi, linear vertical, opening angle h/v 360°/30°, N (female), IP55, incl. mounting bracket and mast clips for 45 mm - 100 mm diameter, stainless steel, ATEX & IECEx approval



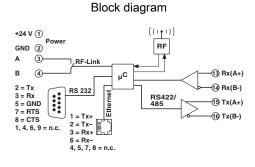
Solar set

Solar system - RAD-SOL-SET-24-100 - 2885472



24 V / 100 Wp solar system for worldwide use. Consisting of a solar panel, prewired control cabinet with charge controller, solar batteries, fuses, surge protection and assembly material (including mast clips).

Drawings



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