

Wireless module - RAD-80211-XD/HP - 2900046

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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.
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Dimensions

Width	45 mm
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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
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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

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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

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Classifications

UNSPSC

UNSPSC 13.2	43223108
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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°

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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

Block diagram

