

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

Your advantages

- ✓ 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
GTIN	 4 046356 462105
GTIN	4046356462105
Weight per Piece (excluding packing)	272.000 g
Custom tariff number	85176200
Country of origin	Canada

Technical data

Dimensions

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

Technical data

Dimensions

Width	45 mm
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

Standards and Regulations

Conformance	FCC Directive, Part 15.247
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Technical data

Standards and Regulations

	ISC Directive RSS 210
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

Connection data

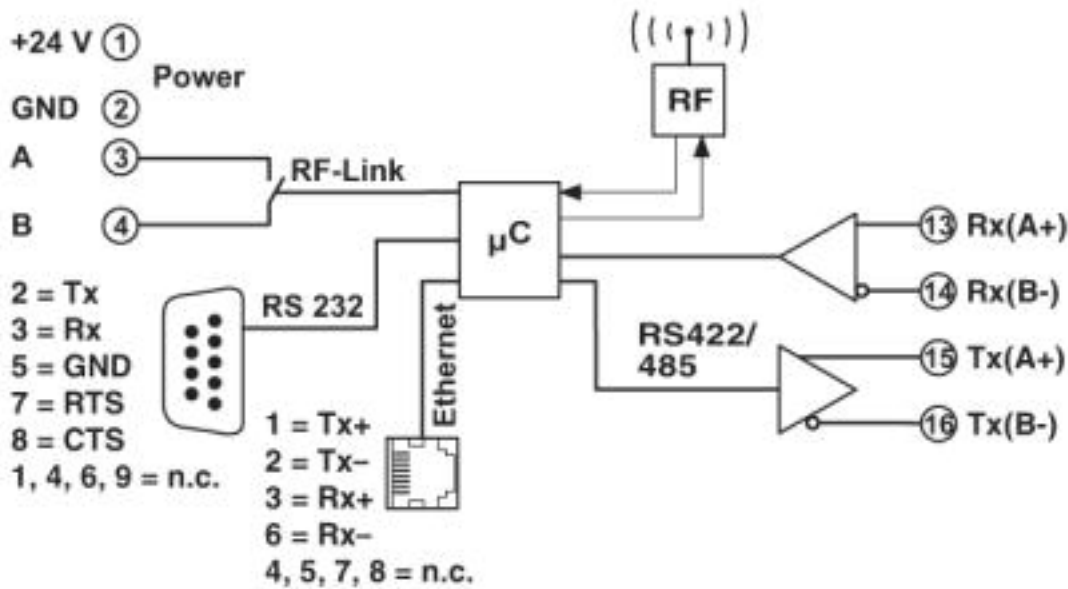
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Block diagram



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Classifications

eCl@ss

eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	19179200
eCl@ss 7.0	19179290
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
ETIM 6.0	EC000310
ETIM 7.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	43222604
UNSPSC 19.0	43222604

Accessories

Accessories

Antenna

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



Omnidirectional antenna, 2.4 GHz, gain: 2 dBi, polarization: linear, opening angle: h/v 360°/75°, degree of protection: IP65, connection: MCX (male), incl. 1.5 m / 5 ft. connecting cable and mounting bracket for wall mounting

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Accessories

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



Omnidirectional antenna with protection against vandalism, 2.4 GHz, gain: 3 dBi, polarization: linear, opening angle: h/v 360°/85°, degree of protection: IP55, connection: MCX (male), for control cabinet mounting (optional wall mounting), incl. 1.5 m / 5 ft. connecting cable

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



Omnidirectional antenna, 2.4 GHz, gain: 9 dBi, polarization: linear, opening angle: h/v 360°/15°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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



Directional antenna, 2.4 GHz, gain: 8 dBi, polarization: linear, opening angle: h/v 75°/70°, degree of protection: IP55, connection: SMA (female), incl. mounting bracket and mast clips

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



Directional antenna, 2.4 GHz, gain: 19 dBi, polarization: linear, opening angle: h/v 17°/11°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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



Omnidirectional antenna, 2.4 GHz, gain: 6 dBi, polarization: linear, opening angle: h/v 360°/30°, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval

Solar set

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Accessories

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).

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