

RAD-80211-XD/HP - Wireless module



2900046
<https://www.phoenixcontact.com/us/products/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

- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- Provides an interface for data transmission between older serial devices (RS-232, RS-422, and RS-485 interfaces) and an Ethernet network
- Using the integrated web browser interface, the devices can be configured as an access point, bridge or client
- 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
- Optional, integrated bus foot for connecting RAD-Line extension modules
- Can be used as a Modbus RTU/TCP gateway
- In bridge mode, up to 40 nodes can be connected to a single network, creating a reliable wireless network
- Operates in the license-free 2.4 GHz ISM band
- Provides an industrial 400 mW wireless transceiver

Commercial data

Item number	2900046
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNC652
Catalog page	Page 469 (C-6-2017)
GTIN	4046356462105
Weight per piece (including packing)	276.5 g
Weight per piece (excluding packing)	276.5 g
Customs tariff number	85176200
Country of origin	CA

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Technical data

Product properties

Product type	Wireless module
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Electrical properties

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

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 14
Screw thread	M3

Interfaces

Serial: 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

Serial: RS-485/RS-422

Data rate	300 ... 57,6 kBit/s
Connection method	COMBICON plug-in screw terminal block

Wireless

Direction	Bi-directional
Frequency	2.4 GHz
Frequency range	2.4032 GHz ... 2.4799 GHz
Transmission power	400 mW

Wireless

Antenna connection method	MCX (female)
Frequency band	2.4 GHz
	5 GHz
Wireless standard	IEEE 802.11
	a
	b

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Dimensions

Width	45 mm
Height	99 mm
Depth	115 mm

Material specifications

Color	green
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Approvals

Conformity/Approvals

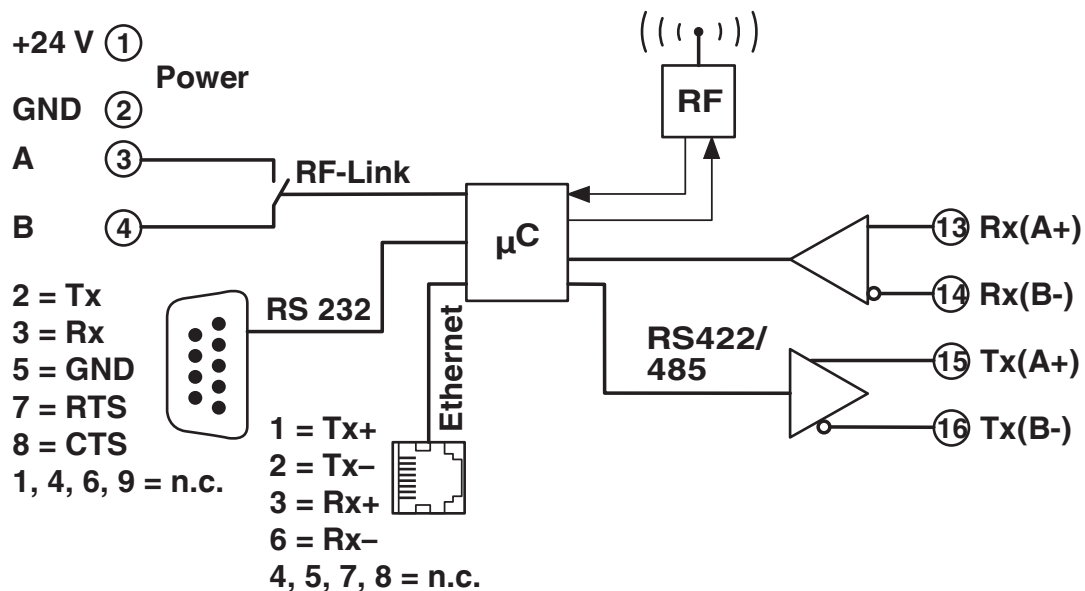
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Mounting

Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

Drawings

Block diagram



Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	<div>EFUP-50</div> <div>An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.</div>
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

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

2867461

<https://www.phoenixcontact.com/us/products/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

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

2885702

<https://www.phoenixcontact.com/us/products/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

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

2867623

<https://www.phoenixcontact.com/us/products/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

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

2867610

<https://www.phoenixcontact.com/us/products/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

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

2885919

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Omnidirectional antenna for wall or mast mounting, 2.4 GHz, gain: 6 dBi, degree of protection: IP67, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



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