

RAD-ISM-900-EN-BD - Wireless module



2900016

<https://www.phoenixcontact.com/us/products/2900016>

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Wireless transceiver (transmitter and receiver) with Ethernet, RS-232, RS-485 interfaces, for 900 MHz ISM band (America).

This product is exclusively for export outside of the European Economic Area (EEA).

Your advantages

- Frequency hopping spread spectrum
- Provides an interface for data transmission between a 900 MHz wireless transmission system and Ethernet, RS-232, RS-422 or RS-485 interfaces
- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- Secure data transmission with 128/192/256-bit AES encryption
- Operates in the license-free 902 MHz ... 928 MHz ISM band
- Supports TCP/IP, UDP, and IPv4 protocols
- Includes a transmitter that can be set from 10 mW ... 1 W

Commercial data

Item number	2900016
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC651
GTIN	4046356461580
Weight per piece (including packing)	364.4 g
Weight per piece (excluding packing)	364.4 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	11 V DC ... 30 V DC
Max. current consumption	250 mA (at 24 V DC)

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

Connection method	COMBICON plug-in screw terminal block
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Wireless

Direction	Bi-directional
Frequency	900 MHz
Frequency range	902 MHz ... 928 MHz
Transmission power	1 W (adjustable in 1 dBm increments)
Transmit capacity, minimum	10 dBm
Transmit capacity, maximum	30 dBm

Functions

Operating modes	bidirectional
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Wireless

Frequency band	900 MHz
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Dimensions

Width	52 mm
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Height	99 mm
Depth	115 mm

Material specifications

Color	green
Housing material	Polyamide PA non-reinforced with aluminum heatsink

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C

Approvals

Conformity/Approvals

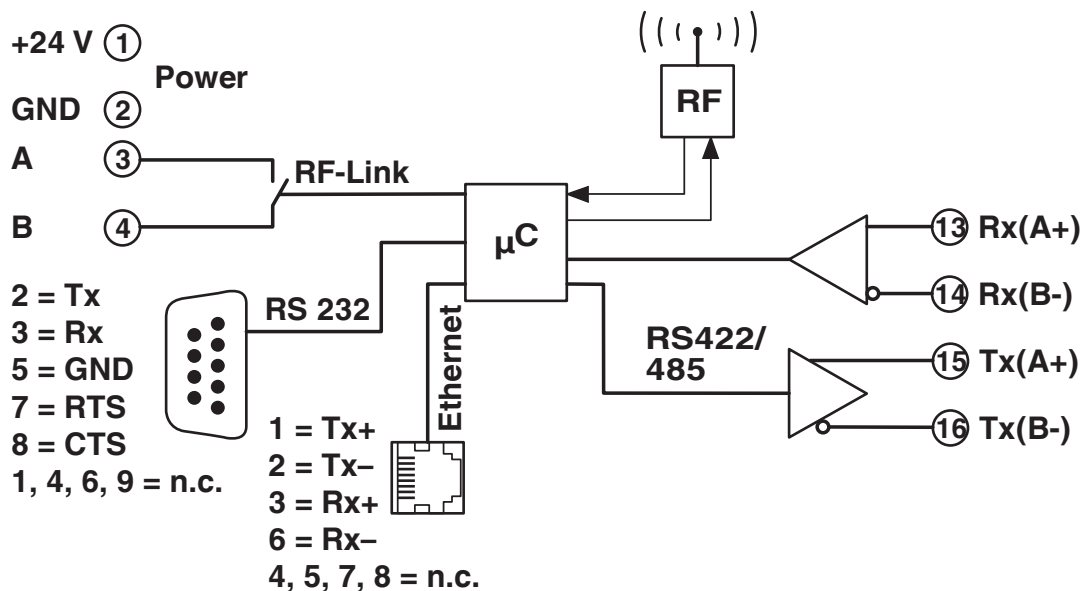
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Mounting

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

Drawings

Block diagram



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Classifications

UNSPSC

UNSPSC 21.0	43222604
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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	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.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com