

# RAD-ISM-900-EN-BD/B - Wireless module



2901205

<https://www.phoenixcontact.com/us/products/2901205>

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Wireless transceiver (transmitter and receiver) with Ethernet for 900 MHz ISM band (America). This is a slave-only device that communicates with either the RAD-ISM-900-EN-BD or RAD-ISM-900-EN-BD-BUS configured as the master. This product is exclusively for export outside of the European Economic Area (EEA).

## Your advantages

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

## Commercial data

Item number	2901205
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNC651
GTIN	4046356586740
Weight per piece (including packing)	362 g
Weight per piece (excluding packing)	362 g
Customs tariff number	85176200
Country of origin	CA

## 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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	24 ... 14
Screw thread	M3

### Interfaces

#### 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
Height	99 mm
Depth	114.5 mm

### Material specifications

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

### Environmental and real-life conditions

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## 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

## EMC data

Electromagnetic compatibility	FCC Part 15.247 / ISC RSS 210
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## Mounting

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

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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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