

# RAD-ISM-900-DATA-BD-BUS - Wireless module



2867296

<https://www.phoenixcontact.com/us/products/2867296>

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Wireless transceiver (transmitter and receiver) with RS-232, RS-485/RS-422 interface and bus foot, for 900 MHz ISM band (America)

## Your advantages

- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- The integrated bus foot enables connection to additional I/O modules
- The individual devices can be configured as master, slave or repeater
- Provides an interface for I/O data transmission between a 900 MHz wireless transmission system and RS-232, RS-422 or RS-485 interfaces
- Frequency hopping spread spectrum
- Up to 254 slaves can be connected to one master
- Operates in the license-free 902 MHz ... 928 MHz ISM band

## Commercial data

Item number	2867296
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	NULL
Product key	DNC651
GTIN	4017918952754
Weight per piece (including packing)	242.7 g
Weight per piece (excluding packing)	241.8 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	9 V DC ... 30 V DC
Typical current consumption	110 mA
Max. current consumption	180 mA

### 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 ... 12
Screw thread	M3

### Interfaces

#### Serial: RS-232

Data rate	1,2 / 2,4 / 9,6 / 19,2 / 38,4 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	1,2 / 2,4 / 9,6 / 19,2 / 38,4 kBit/s
Connection method	COMBICON plug-in screw terminal block

#### Wireless

Direction	Bi-directional
Frequency	900 MHz
Frequency range	902 MHz ... 928 MHz
Number of channel groups	4
Number of channels per group	63
Transmission power	1 W

#### Wireless

Frequency band	900 MHz
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### Dimensions

Width	22.5 mm
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Height	99 mm
Depth	114.5 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 -40 °F ... 158 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °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

## EMC data

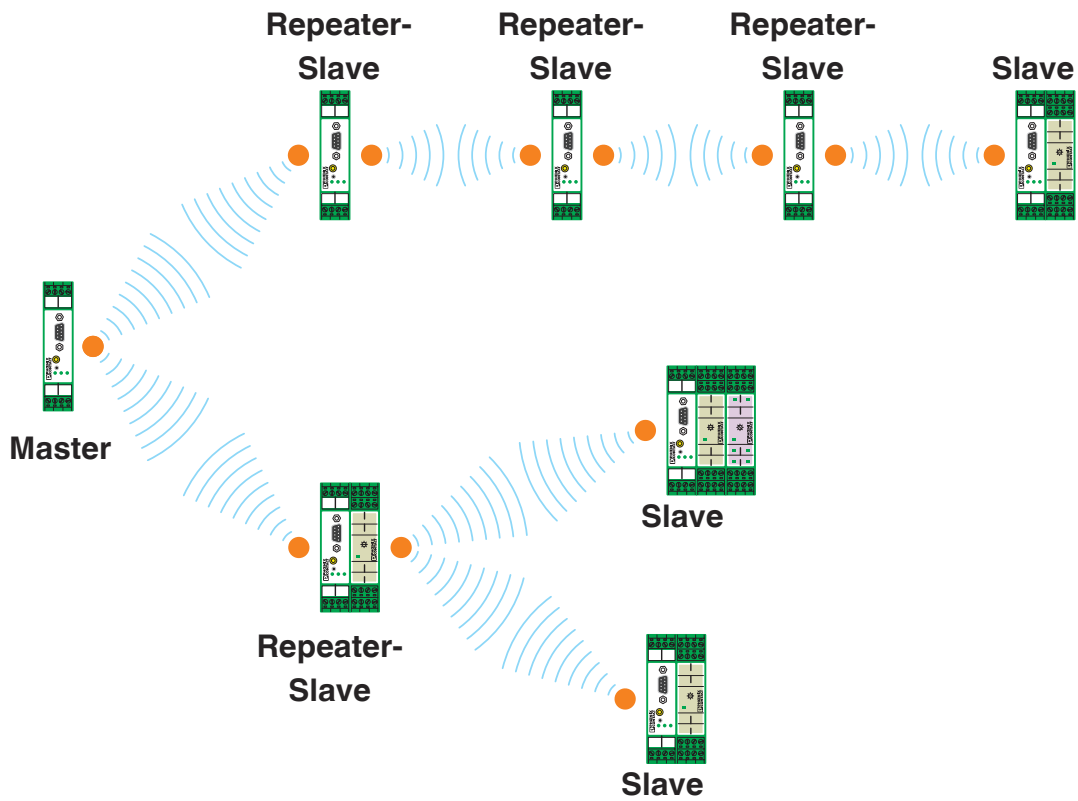
Electromagnetic compatibility	FCC Part 15.247 / ISC RSS 210
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## Mounting

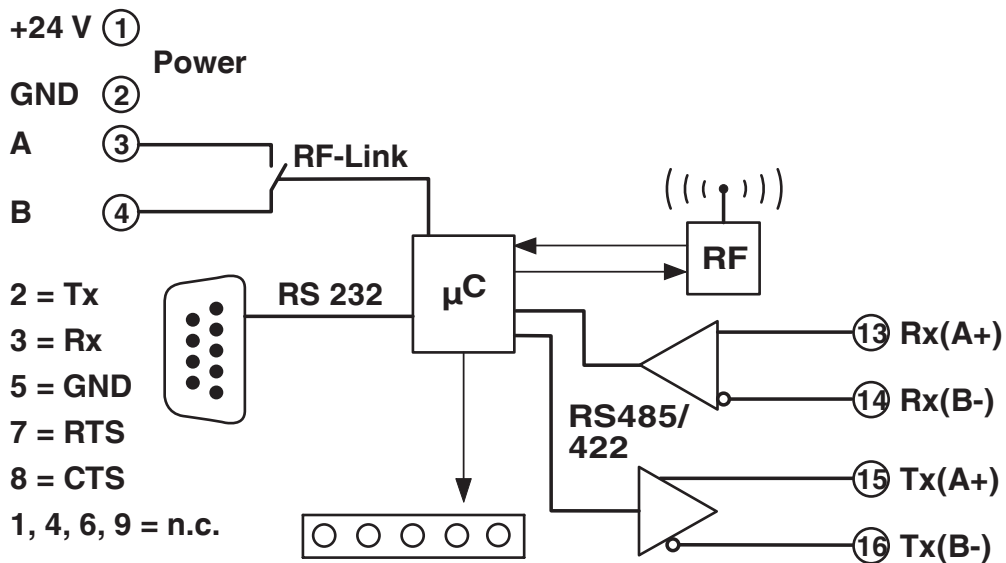
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

## Drawings

Application drawing



Block diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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