

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



2867131

<https://www.phoenixcontact.com/us/products/2867131>

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

Your advantages

- Provides an interface for I/O data transmission between a 900 MHz wireless transmission system and RS-232, RS-422 or RS-485 interfaces
- The individual devices can be configured as master, slave or repeater
- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- 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	2867131
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNC651
Catalog page	Page 468 (C-8-2013)
GTIN	4017918931643
Weight per piece (including packing)	222.9 g
Weight per piece (excluding packing)	206.5 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 ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
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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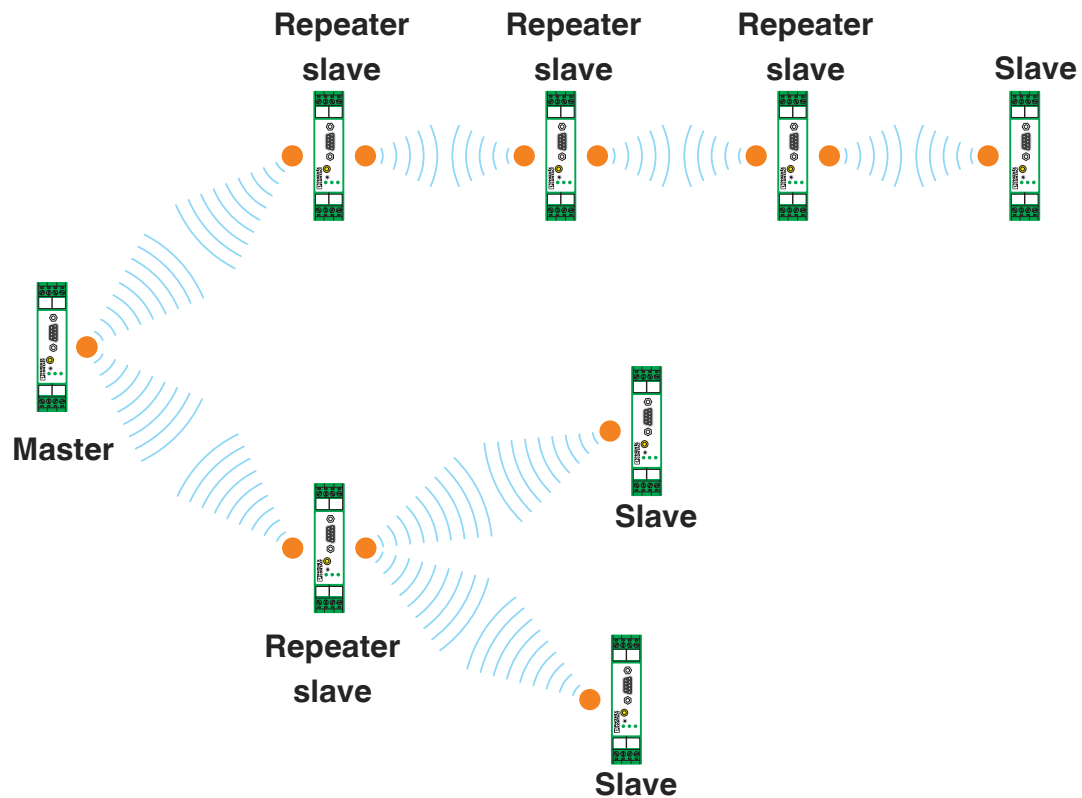
Mounting

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

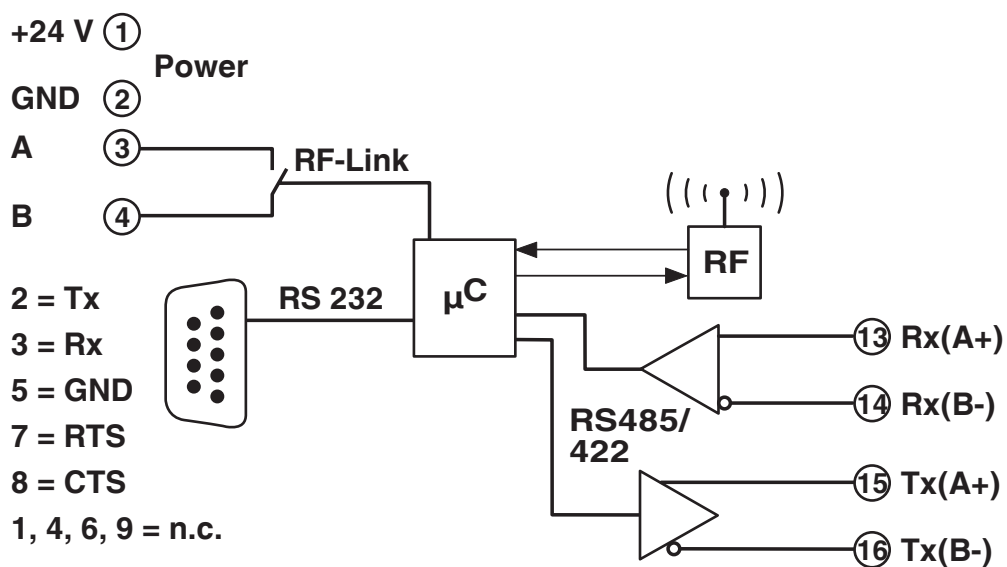
Drawings

Application drawing

Network



Block diagram



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Accessories

RAD-ISM-900-ANT-OMNI-5 - Antenna

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Omnidirectional antenna, 900 MHz, gain: 7 dBi, polarization: linear, opening angle: h/v 360°/30°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

RAD-ISM-900-ANT-OMNI-FG-3-N - Antenna

2867791

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Omnidirectional antenna, 900 MHz, gain: 5 dBi, polarization: linear, opening angle: h/v 360°/28°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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RAD-ISM-900-ANT-YAGI-3-N - Antenna

2867801

<https://www.phoenixcontact.com/us/products/2867801>



Directional antenna, 868 MHz / 900 MHz, gain: 5 dBi, polarization: linear, opening angle: h/v 168°/78°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

RAD-ISM-900-ANT-YAGI-6.5-N - Antenna

2867814

<https://www.phoenixcontact.com/us/products/2867814>



Directional antenna, 868 MHz / 900 MHz, gain: 8.5 dBi, polarization: linear, opening angle: h/v 100°/62°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips

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RAD-ISM-900-ANT-YAGI-6.5-25-AS - Antenna

2867827

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Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 7.6 m, connection N (female)



RAD-ISM-900-ANT-YAGI-6.5-50-AS - Antenna

2867830

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Panel antenna with surge protection, adapter cable MCX->N and assembly material, IP65 protection, gain 8.5 dBi, cable length 15.2 m, connection N (female)



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RAD-ISM-900-ANT-OMNI-0-6 - Antenna

2867160

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Omnidirectional antenna, 900 MHz, gain: 2 dBi, polarization: linear, opening angle: h 360°, degree of protection: IP65, connection: MCX (male), incl. 2 m / 6.5 ft. connecting cable and mounting bracket for wall mounting

RAD-CAB-RG58-10 - Antenna cable

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Antenna extension cable, length: 10 ft



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RAD-CAB-RG58-20 - Antenna cable

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Antenna extension cable, length: 20 ft



RAD-CAB-RG213-25 - Antenna cable

2867597

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Antenna extension cable, length: 25 ft



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RAD-CAB-RG213-40 - Antenna cable

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Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 2.9 dB at 900 MHz, connection: 2 x N (male), cable length: 12 m (40 ft.)



RAD-CAB-RG213-50 - Antenna cable

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Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 3.5 dB at 900 MHz, connection: 2 x N (male), cable length: 15 m (50 ft.)



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RAD-CAB-PFP400-60 - Antenna cable

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Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 2.5 / 4.2 / 6.3 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 18 m (60 ft.)



RAD-CAB-PFP400-80 - Antenna cable

2867393

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Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 3.3 / 5.6 / 8.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 24 m (80 ft.)



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RAD-CAB-PFP400-100 - Antenna cable

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Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: solid, attenuation: 4.1 / 6.9 / 10.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 30 m (100 ft.)



RAD-CAB-LMR600-125 - Antenna cable

2885210

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Antenna extension cable, length: 125 ft



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RAD-CAB-PFP600-150 - Antenna cable

2885184

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Antenna cable, outside diameter: 15 mm (0.6 in.), inner conductor: solid, attenuation: 3.9 / 6.8 / 10.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2x N (male), cable length: 45 m (150 ft.)



RAD-CAB-PFP900-200 - Antenna cable

2885197

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Antenna extension cable, length: 200 ft



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RAD-CON-MCX-N-SB - Antenna cable

2867717

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Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: MCX (male) -> N (female), cable length: 1.2 m (4 ft.)



RAD-CON-SMA-N-SS - Antenna cable

2867403

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Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: SMA (male) -> N (male), cable length: 1.2 m (4 ft.)



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RAD-CON-MCX-MCX-SS - Antenna cable

2867607

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Antenna cable, outside diameter: 2.8 mm (0.11 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: MCX (male) -> MCX (male), cable length: 0.3 m (1 ft.)



RAD-CON-MCX90-N-SS - Antenna cable

2885207

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Antenna cable, outside diameter: 2.5 mm (0.1 in.), inner conductor: stranded, attenuation: 0.9 dB at 900 MHz, connection: 90° MCX (male) -> N (male), cable length: 1.2 m (4 ft.)



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RAD-ISM-900-ANT-4 - Antenna splitter

2867050

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4-way distributor for antenna signals (antenna splitter), MCX connection (female)



RAD-ISM-900-ANT-OMNI-FG-6-N - Antenna

2885579

<https://www.phoenixcontact.com/us/products/2885579>

Omnidirectional antenna, 900 MHz, gain: 8 dBi, polarization: linear, opening angle: h/v 360°/15°, degree of protection: IP65, connection: N (female), incl. mounting bracket and mast clips



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RAD-CON-MCX-RPSMA-EX - Antenna cable

2885621

<https://www.phoenixcontact.com/us/products/2885621>



Antenna barrier, installation: Class I, Div. 1, Grps. A, B, C, D; Class II, Div. 1, Grps. F, G, frequency range: 0.3G Hz ... 6 GHz, connection: RSMA (male) -> MCX (male), incl. 0.7 m / 2.3 ft. connection cable, UL HazLoc approval

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