

## Wireless module - RAD-ISM-900-DATA-BD - 2867131

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

### Product Features

- Up to 254 slaves can be connected to one master
- Operates in the license-free 902 - 928 MHz ISM band
- Frequency hopping spread spectrum
- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- 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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	215.0 g
Custom tariff number	85176200
Country of origin	Canada

### Technical data

#### Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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#### Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

#### Ambient conditions

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

### Wireless set

Set contents	1 transceiver
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### Wireless path

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

### Serial interface

Designation	RS-232
Data rate	1,2 / 2,4 / 9,6 / 19,2 / 38,4 kBit/s
Connection method	D-SUB 9 (socket)
File format/coding	Asynchronous
Data flow control/protocols	RTS/CTS
Designation	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

### 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

### General

Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Housing material	Polyamide PA non-reinforced
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

### Standards and Regulations

Electromagnetic compatibility	FCC Part 15.247 / ISC RSS 210
Conformance	FCC Directive, Part 15.247

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## Technical data

### Standards and Regulations

	ISC Directive RSS 210
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### Connection data

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

## Classifications

### eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208

### ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

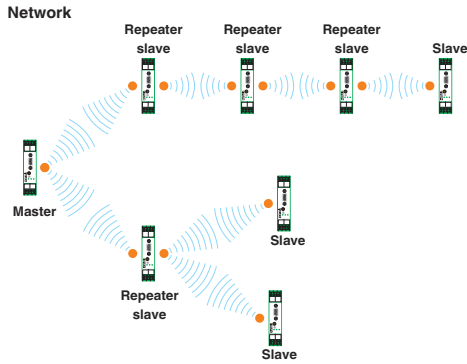
### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

## Drawings

# Wireless module - RAD-ISM-900-DATA-BD - 2867131

Application drawing



Block diagram

