

Wireless module - RAD-ISM-900-RS232-BD - 2867555

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Wireless transceiver (transmitter and receiver) with RS-232 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
- 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
- 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



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	18 pc
Weight per Piece (excluding packing)	2.0 g
Custom tariff number	85299040
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	75 mm
Depth	107.5 mm

Wireless module - RAD-ISM-900-RS232-BD - 2867555

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

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

Wireless module - RAD-ISM-900-RS232-BD - 2867555

Technical data

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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

Accessories

Accessories

Adapter cable

Wireless module - RAD-ISM-900-RS232-BD - 2867555

Accessories

Antenna cable - RAD-CON-MCX-N-SB - 2867717



Adapter cable, pigtail 120 cm MCX(m) -> N(f)

Antenna cable - RAD-CON-SMA-N-SS - 2867403



Adapter cable, pigtail 120 cm SMA(m) -> N(m)

Antenna cable - RAD-CON-MCX-MCX-SS - 2867607



Adapter cable, 30 cm, MCX(m) to MCX (m)

Antenna cable - RAD-CON-MCX90-N-SS - 2885207



Adapter cable, pigtail 120 cm 90° MCX(m) -> N(m)

Antenna

Antenna - RAD-ISM-900-ANT-OMNI-5 - 2867199



Omnidirectional antenna, IP65 protection, gain 7 dBi, connection N (female)

Wireless module - RAD-ISM-900-RS232-BD - 2867555

Accessories

Antenna - RAD-ISM-900-ANT-OMNI-FG-3-N - 2867791

Omnidirectional antenna, IP65 protection, gain 5 dBi, connection N (female)



Antenna - RAD-ISM-900-ANT-YAGI-3-N - 2867801

Panel antenna, IP65 protection, gain 5 dBi, cable length 0.6 m, connection N (female)



Antenna - RAD-ISM-900-ANT-YAGI-6.5-N - 2867814

Panel antenna, IP65 protection, gain 8.5 dBi, cable length 0.6 m, connection N (female)



Antenna - RAD-ISM-900-ANT-YAGI-6.5-25-AS - 2867827

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)



Antenna - RAD-ISM-900-ANT-YAGI-6.5-50-AS - 2867830

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)



Wireless module - RAD-ISM-900-RS232-BD - 2867555

Accessories

Antenna - RAD-ISM-900-ANT-OMNI-0-6 - 2867160



Omnidirectional antenna, IP65 protection, cable length 2 m, connection MCX (male)

Antenna - RAD-ISM-900-ANT-OMNI-FG-6-N - 2885579



Omnidirectional antenna, IP65 protection, gain 8 dBi, connection N (female)

Coaxial adapter

Antenna splitter - RAD-ISM-900-ANT-4 - 2867050



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

Coaxial cable

Antenna cable - RAD-CAB-RG58-10 - 2867364



Antenna extension cable, length: 10 ft

Antenna cable - RAD-CAB-RG58-20 - 2867212



Antenna extension cable, length: 20 ft

Wireless module - RAD-ISM-900-RS232-BD - 2867555

Accessories

Antenna cable - RAD-CAB-RG213-25 - 2867597



Antenna extension cable, length: 25 ft

Antenna cable - RAD-CAB-RG213-40 - 2867377



Antenna extension cable, length: 40 ft

Antenna cable - RAD-CAB-RG213-50 - 2867225



Antenna extension cable, length: 50 ft

Antenna cable - RAD-CAB-PFP400-60 - 2867380



Antenna extension cable, length: 60 ft

Antenna cable - RAD-CAB-PFP400-80 - 2867393



Antenna extension cable, length: 80 ft

Wireless module - RAD-ISM-900-RS232-BD - 2867555

Accessories

Antenna cable - RAD-CAB-PFP400-100 - 2867238



Antenna extension cable, length: 100 ft

Antenna cable - RAD-CAB-LMR600-125 - 2885210



Antenna extension cable, length: 125 ft

Antenna cable - RAD-CAB-PFP600-150 - 2885184



Antenna extension cable, length: 150 ft

Antenna cable - RAD-CAB-PFP900-200 - 2885197



Antenna extension cable, length: 200 ft

Surge protection for transceiver systems

Surge protection device - CN-UB-280DC-BB - 2818850



Attachment plug with replaceable surge protection for coaxial signal interfaces. Connection: N connector socket/socket

Wireless module - RAD-ISM-900-RS232-BD - 2867555

Accessories

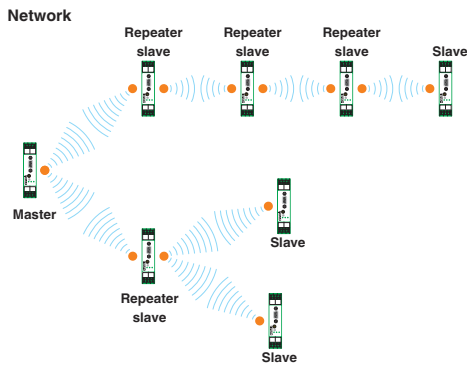
Surge protection device - CN-UB-280DC-SB - 2818148



Attachment plug with replaceable surge protection for coaxial signal interfaces. Connection: N connector plug/socket

Drawings

Application drawing



Block diagram

