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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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# Wireless module - RAD-ISM-900-DATA-BD-PLUS - 2902277

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Wireless transceiver (transmitter and receiver) with RS-232, RS-485/RS-422 interface, for 900 MHz ISM band (America). Allows up to 8 analog/digital/pulse inputs and 4 outputs onboard.

## Product description

Wireless transceiver (transmitter and receiver) with RS-232, RS-485/RS-422 interface, for 900 MHz ISM band (America). Allows up to 8 analog/digital/pulse inputs and 4 outputs onboard.

## Key commercial data

Packing unit	1
Minimum order quantity	500
GTIN	 4 046356 675475
Custom tariff number	85176200
Country of origin	CANADA

## Technical data

### 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
Transmit capacity, maximum	30 dBm
Number of channel groups	4
Number of channels per group	63
Connection method	MCX (female)

### Serial interface

Name	RS-232
Data rate	1,2 / 2,4 / 9,6 / 19,2 / 38,4 kBit/s
Connection method	9-pos. D-SUB (female connector)
File format/coding	Asynchronous
Data flow control/protocols	RTS/CTS
Name	RS-485/RS-422

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## Technical data

### Serial interface

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	12 V DC ... 30 V DC
Max. current consumption	4.1 A
Nominal power consumption	2.5 W

### General data

Width	64 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Degree of protection	IP20
Mounting position	Any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Housing material	Polyamide PA non-reinforced with aluminum heatsink

### 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 stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

## Classifications

### eclass

eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208

### etim

ETIM 4.0	EC000310
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## Accessories

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### Cable/conductor

## Wireless module - RAD-ISM-900-DATA-BD-PLUS - 2902277

### Accessories

Antenna cable - RAD-CAB-LMR500-25 - 5606126



Antenna cable, 25 ft. in length, type N (male) to type N (male), 50  $\Omega$  impedance

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### Plug/Adapter

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



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

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



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

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



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

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



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

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## Accessories

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



Panel antenna, IP65 protection, gain 8.5 dBi, cable length 1.5 m, connection N (female)

Control cabinet - RAD-SYS-NEMA4X-900 - 2917188

NEMA 4X enclosure for wireless systems

## Drawings

### Block diagram

