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## Wireless module - RAD-ISM-900-EN-BD - 2900016

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Wireless transceiver (transmitter and receiver) with Ethernet, RS-232, RS-485 interfaces, for 900 MHz ISM band (America).  
This product is exclusively for export outside of the European Economic Area (EEA).

### Why buy this product

- Secure data transmission with 128/192/256-bit AES encryption
- Includes a transmitter that can be set from 10 mW ... 1 W
- Supports TCP/IP, UDP, and IPv4 protocols
- Operates in the license-free 902 - 928 MHz ISM band
- Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- Frequency hopping spread spectrum
- Provides an interface for data transmission between a 900 MHz wireless transmission system and Ethernet, RS-232, RS-422 or RS-485 interfaces



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 461580

### 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	52 mm
Height	99 mm
Depth	115 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C

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## Technical data

### Ambient conditions

Degree of protection	IP20
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### 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 (adjustable in 1 dBm increments)
Transmit capacity, minimum	10 dBm
Transmit capacity, maximum	30 dBm

### Serial interface

Designation	RS-232
Data rate	300 ... 57,6 kBit/s
Connection method	D-SUB 9 (socket)
File format/coding	Asynchronous
Data flow control/protocols	RTS/CTS
Designation	RS-485/RS-422
Connection method	COMBICON plug-in screw terminal block

### Supply

Supply voltage	24 V DC
Supply voltage range	11 V DC ... 30 V DC
Max. current consumption	250 mA (at 24 V DC)

### General

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
Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

### 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.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

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## Technical data

### Standards and Regulations

Conformance	FCC Directive, Part 15.247
	ISC Directive RSS 210
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

## 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
eCl@ss 8.0	19179290

### ETIM

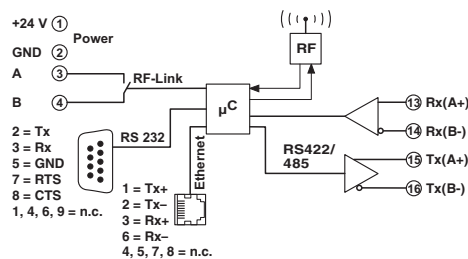
ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

### UNSPSC

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

## Drawings

Block diagram



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Product	Code	Reference	Product link
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