

## Wireless module - RAD-ISM-900-EN-BD/B - 2901205

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Wireless transceiver (transmitter and receiver) with Ethernet for 900 MHz ISM band (America). This is a slave-only device that communicates with either the RAD-ISM-900-EN-BD or RAD-ISM-900-EN-BD-BUS configured as the master.

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
- ✓ Operates in the license-free 902 - 928 MHz ISM band
- ✓ Supports TCP/IP, UDP, and IPv4 protocols
- ✓ Provides an interface for data transmission between a 900 MHz wireless transmission system and Ethernet, RS-232, RS-422 or RS-485 interfaces
- ✓ Can be programmed for point-to-point, point-to-multipoint, and multipoint-to-point configurations
- ✓ Frequency hopping spread spectrum



### Key Commercial Data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 STK     |
| Weight per Piece (excluding packing) | 360.600 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. |
|-------------------|------------------------------------------------------------------------------------------------|

#### Dimensions

|        |          |
|--------|----------|
| Width  | 52 mm    |
| Height | 99 mm    |
| Depth  | 114.5 mm |

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#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 65 °C |
| Ambient temperature (storage/transport) | -40 °C ... 75 °C |
| Degree of protection                    | IP20             |

#### Wireless set

|              |               |
|--------------|---------------|
| Set contents | 1 transceiver |
|--------------|---------------|

#### 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                               |

#### 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                                  |

#### 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                  |

#### Standards and Regulations

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



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### Standards and Regulations

|  |                       |
|--|-----------------------|
|  | ISC Directive RSS 210 |
|--|-----------------------|