

## 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 STK     |
| Weight per Piece (excluding packing) | 342.600 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  | 64 mm    |
| Height | 99 mm    |
| Depth  | 114.5 mm |

#### Ambient conditions

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

#### Wireless set

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

## Technical data

### Wireless set

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

### 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

|                             |                                       |
|-----------------------------|---------------------------------------|
| Designation                 | RS-232                                |
| Data rate                   | 1,2 / 2,4 / 9,6 / 19,2 / 38,4 kBit/s  |
| Connection method           | D-SUB-9 female connector              |
| 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      | 12 V DC ... 30 V DC |
| Max. current consumption  | 4.1 A               |
| Nominal power consumption | 2.5 W               |

### 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                             |

### Standards and Regulations

|             |                            |
|-------------|----------------------------|
| Conformance | FCC Directive, Part 15.247 |
|-------------|----------------------------|

### 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> |

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### Connection data

|                                  |                  |
|----------------------------------|------------------|
| Conductor cross section AWG min. | 24               |
| Conductor cross section AWG max. | 14               |
| Connection method                | Screw connection |
| Stripping length                 | 8 mm             |
| Screw thread                     | M3               |

## Drawings

Block diagram

