

RAD-ISM-2400-DATA-BD - Wireless module



2867869

<https://www.phoenixcontact.com/us/products/2867869>

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Wireless transceiver (transmitter and receiver) with RS-232, RS-485/RS-422 interface, for 2400 MHz ISM band

Your advantages

- Transmission power of up to 100 mW (adjustable)
- Trusted Wireless technology with frequency hopping method
- Configuration via RAD-Link software
- Transparent and protocol-independent data transmission
- Meshed network with up to 254 repeaters/slaves
- License-free 2.4 GHz ISM band

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2867869 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | NULL |
| Product key | DNC652 |
| GTIN | 4017918965402 |
| Weight per piece (including packing) | 217 g |
| Weight per piece (excluding packing) | 217 g |
| Customs tariff number | 85176200 |
| Country of origin | CA |

Technical data

Notes

Utilization restriction

| | |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

Product properties

| | |
|--------------|-----------------|
| Product type | Wireless module |
|--------------|-----------------|

Electrical properties

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 2.64 W |
|---|--------|

Supply

| | |
|-----------------------------|-----------------------|
| Supply voltage | 24 V DC -50 % / +25 % |
| Supply voltage range | 12 V DC ... 30 V DC |
| Typical current consumption | 50 mA |
| Max. current consumption | 100 mA |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Cross section AWG | 24 ... 12 |
| Screw thread | M3 |

Interfaces

Serial: RS-232

| | |
|-----------------------------|--------------------------|
| Transmission speed | 0.3 ... 115.2 kbps |
| Connection method | D-SUB-9 female connector |
| File format/coding | Asynchronous |
| Data flow control/protocols | RTS/CTS |
| Size of packet | 32 / 98 / 240 bytes |

Serial: RS-485/RS-422

| | |
|-------------------|---------------------------------------|
| Data rate | 300 Bit/s ... 115,2 kBit/s |
| Connection method | COMBICON plug-in screw terminal block |

Wireless

| | |
|------------------|---------------------------|
| Direction | Bi-directional |
| Frequency | 2400 MHz |
| Frequency range | 2.4015 GHz ... 2.4815 GHz |
| Channel distance | 1 MHz |

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| | |
|------------------------------|---------------------|
| Number of channel groups | 3 |
| Number of channels per group | 27 |
| Transmission power | 100 mW (adjustable) |

Wireless

| | |
|----------------|---------|
| Frequency band | 2.4 GHz |
|----------------|---------|

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Material specifications

| | |
|--------------------|------------------|
| Color (Housing) | green (RAL 6021) |
| Material (Housing) | Polyamide |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--------------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 65 °C -4 °F ... 149 °F |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approvals

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

ATEX

| | |
|----------------|---|
| Identification | ⊕ II 3 G Ex nL IIC |
| Note | Please follow the special installation instructions in the documentation! |

IECEX

| | |
|----------------|--------------|
| Identification | Ex nL IIC T4 |
|----------------|--------------|

Corrosive gas test

| | |
|----------------|----------------------------------|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |
|----------------|----------------------------------|

EMC data

| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with R&TTE directive 1999/5/EC |
|-------------------------------|--|

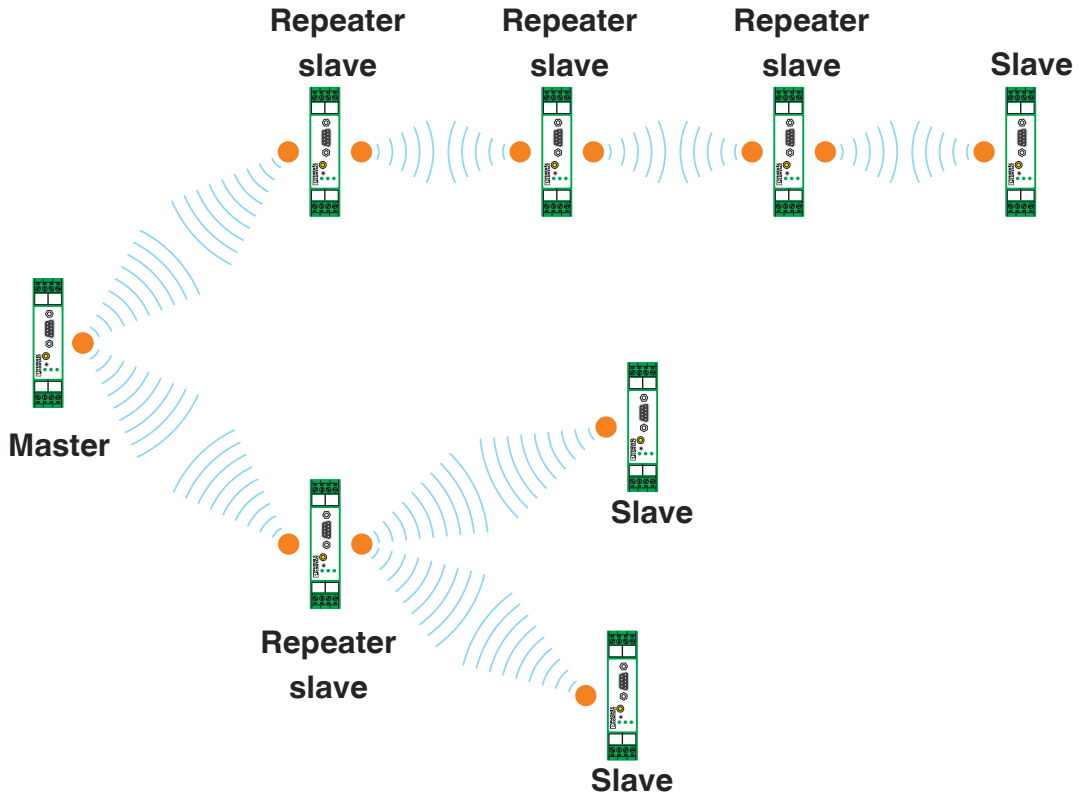
Mounting

| | |
|-------------------|--|
| Assembly note | on standard DIN rail NS 35 in accordance with EN 60715 |
| Mounting position | any |

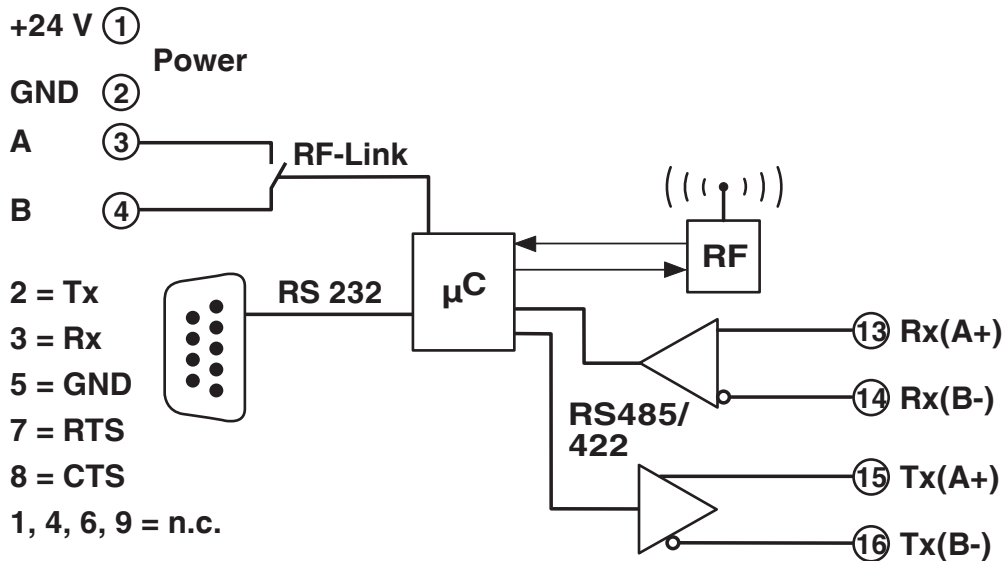
Drawings

Application drawing

Network



Block diagram



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Environmental product compliance

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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