# FL BT EPA 2 - Wireless module

1005869

https://www.phoenixcontact.com/us/products/1005869

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Bluetooth/Ethernet wireless module, 2.1+EDR/4.0, PAN P2P, internal antenna, IP65, 9 V DC ... 30 V DC, M12 connection, WEB, AT-commands and mode button

## Your advantages

- Bluetooth wireless modul
- Protocol-transparent communication on Layer 2
- Degree of protection IP65
- Integrated antenna

## Commercial data

| | |
|---|---|
| Item number | 1005869 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN26 |
| Product key | DNN2B1 |
| GTIN | 4055626476087 |
| Weight per piece (including packing) | 156 g |
| Weight per piece (excluding packing) | 105 g |
| Customs tariff number | 85176200 |
| Country of origin | LT |

## Technical data

### Notes

Note on application

| | |
|---|---|
| Note on application | Only for industrial use |

### Product properties

| | |
|---|---|
| Product type | Wireless module |
| Application | Ethernet |
| Type | Stand-alone |

Wireless card

| | |
|---|---|
| Number | 1 |
| Assembly note | Permanently installed |

### Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 1.7 W |

Supply: Module electronics

| | |
|---|---|
| Connection technology | M12 connector |
| Connection method | M12 connector, A-coded (male) |
| Supply voltage | 24 V DC |
| Supply voltage range | 9 V DC ... 30 V DC |
| Supply current | typ. 36 mA (at 24 V DC) |
| Current consumption | max. 190 mA (at 9 V DC) |

### Input data

Digital:

| | |
|---|---|
| Number of inputs | 1 |

### Connection data

Power supply input

| | |
|---|---|
| Connection method | M12 connector, A-coded (male) |
| pluggable | yes |

### Interfaces

Ethernet

| | |
|---|---|
| Interface | Ethernet |
| Number | 1 |
| Connection method | M12 connector, D-coded (female) |

Functions

| | |
|---|---|
| Configuration | Web interface, MODE button, AT commands (TCP/IP), SSC |

| | |
|---|---|
| Security | PIN |
| | Non-discoverable |
| Wireless licenses | Europe, USA, Canada, additional countries in the e-shop |
| | RED (Radio Equipment Directive) |
| | FCC 47 CFR part 15, subpart B |
| Country support | Belgium |
| | Bulgaria |
| | Denmark |
| | Germany |
| | Estonia |
| | Finland |
| | France |
| | Greece |
| | Great Britain |
| | Ireland |
| | Iceland |
| | Italy |
| | Canada |
| | Croatia |
| | Latvia |
| | Liechtenstein |
| | Lithuania |
| | Luxembourg |
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |
| | Portugal |
| | Romania |
| | Sweden |
| | Switzerland |
| | Slovakia |
| | Slovenia |
| | Spain |
| | Czech Republic |
| | Hungary |
| | USA |
| | Cyprus (rep.) |
| | Japan |
| | Cyprus (rep.) |

10/100 Mbps Ethernet

| | |
|---|---|
| Number of interfaces | 1 |

| | |
|---|---|
| Connection method | M12 connector, D-coded (female) |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed | 10/100 Mbps |
| Transmission physics | Copper |
| Transmission length | 100 m (per segment) |

Wireless

| | |
|---|---|
| Designation | Bluetooth |
| Antenna connection method | (Internal) |
| Frequency range | 2.402 GHz ... 2.48 GHz (Bluetooth) |
| Frequency band | 2.4 GHz |
| Wireless standard | Bluetooth 2.1 + EDR |
| Transmission power | max. 10 dBm |
| Number of wireless interfaces | 1 Bluetooth 2.1+EDR, Bluetooth LE 4.0 |
| Wireless modules that can be connected | 1 |
| Profiles supported | PAN (NAP, PANU) |
| | GATT (central) |

## Dimensions

| | |
|---|---|
| Width | 67.8 mm |
| Height | 92.7 mm |
| Depth | 33.2 mm |
| Note on dimensions | Without M12 connections |

## Material specifications

| | |
|---|---|
| Color (Housing) | black (RAL 9005) |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| Ambient temperature (operation) | -40 °C ... 65 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 93 % (non-condensing) |
| Permissible humidity (storage/transport) | non-condensing |

Mechanical test

| | |
|---|---|
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 3g, 11 ms half-sine shock pulse |
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 5 - 8.4 Hz= ±3.5 mm; 8.4 - 40.7 Hz = 1g; 40.7 - 57Hz= ±0.15 mm; 57 - 500 Hz= 2g |

## EMC data

Electrostatic discharge

| | |
|---|---|
| Standards/regulations | EN 61000-4-2 |

Electromagnetic HF field

| | |
|---|---|
| Standards/regulations | EN 61000-4-3 |

Fast transients (burst)

| | |
|---|---|
| Standards/regulations | EN 61000-4-4 |

Surge current load (surge)

| | |
|---|---|
| Standards/regulations | EN 61000-4-5 |

Conducted interference

| | |
|---|---|
| Standards/regulations | EN 61000-4-6 |

Emitted interference

| | |
|---|---|
| Standards/regulations | EN 55022 |

## Mounting

| | |
|---|---|
| Mounting type | Panel mounting |
| Assembly note | Internal antenna |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1005869

**UL Listed**
Approval ID: E238705

**cUL Listed**
Approval ID: E238705

**cUL Listed**
Approval ID: E196811

**UL Listed**
Approval ID: E196811

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-15.0 | 19170101 |
| ECLASS-13.0 | 19170101 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000515 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 43201400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 26.66 kg CO2e |


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