

FL EPA 2 - Wireless module



1005955

<https://www.phoenixcontact.com/us/products/1005955>

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Combined Ethernet wireless module with Bluetooth and Wi-Fi, internal antenna, Wi-Fi: AP and client, 2.4 and 5 GHz, Bluetooth: 2.1+EDR/4.0, PAN up to 7 connections, IP65, 9 ... 30 V DC, M12 connection, WEB, AT commands and mode button

Your advantages

- Combined wireless module for WLAN and Bluetooth
- Protocol-transparent communication on Layer 2
- Degree of protection IP65
- Integrated antenna



Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1005955 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN26 |
| Product key | DNN2B1 |
| GTIN | 4055626476568 |
| Weight per piece (including packing) | 152.4 g |
| Weight per piece (excluding packing) | 166 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. 54 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

| | |
|-----------------|--|
| Operating modes | Access point/client adapter for WLAN and Bluetooth |
|-----------------|--|

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| | |
|-------------------|---|
| Configuration | Web interface, MODE button, AT commands (TCP/IP), SSC |
| Security | 802.11i |
| | WPA PSK (preshared key) |
| | WPA2 |
| | AES |
| | TKIP |
| | 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 |
| | China |
| | Denmark |
| | Germany |
| | Estonia |
| | Finland |
| | France |
| | Greece |
| | Great Britain |
| | Ireland |
| | Iceland |
| | Italy |
| | Japan |
| | Canada |
| | Croatia |
| | Latvia |
| | Liechtenstein |
| | Lithuania |
| | Luxembourg |
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |
| | Portugal |
| Romania | |
| Sweden | |
| Switzerland | |
| Slovakia | |
| Slovenia | |
| Spain | |
| South Korea | |

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| | |
|--|----------------|
| | Thailand |
| | Czech Republic |
| | Hungary |
| | USA |
| | 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 / WLAN |
| Antenna connection method | (Internal) |
| Frequency range | 2.402 GHz ... 2.48 GHz (Bluetooth) 2.4095 GHz ... 2.4645 GHz (WLAN) 5.17 GHz ... 5.25 GHz (WLAN-AP) 5.17 GHz ... 5.71 GHz (WLAN-Client) |
| Frequency band | 2.4 GHz 5 GHz |
| Wireless standard | Bluetooth 2.1 + EDR WLAN IEEE 802.11 a b g n |
| Transmission power | max. 16 dBm (Bluetooth: 10 dBm) |
| Number of wireless interfaces | 1 IEEE 802.11 a/b/g/n, Bluetooth 2.1+EDR, Bluetooth LE 4.0 |
| Wireless modules that can be connected | 7 (BT 2.1+EDR, NAP-Mode) |
| 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) |
|-----------------|------------------|

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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 |

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1005955>

 **UL Listed**
Approval ID: E238705

 **cUL Listed**
Approval ID: E238705

 **cUL Listed**
Approval ID: E196811

 **UL Listed**
Approval ID: E196811

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 4ae8c8ac-962c-4938-8b41-b7138bb0e907 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 9.687 kg CO2e |
|---------|---------------|

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