

# FL BT EPA MP - Wireless module



2701416

<https://www.phoenixcontact.com/us/products/2701416>

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Bluetooth Ethernet port adapter with external antenna connection for the wireless connection of Ethernet devices, BT access point and client mode, omnidirectional antenna supplied as standard

## Product description

Our Bluetooth modules can be used to easily, reliably, and cost-effectively integrate mobile or difficult to access automation devices or I/O modules into your Ethernet automation network.

With "black channel listing" and "low emission mode", Industrial Bluetooth can also be operated parallel to WLAN networks without any interference. Quick and straightforward startup with configuration via MODE button, web interface or directly from a controller is yet another feature of this solution.

## Your advantages

- WLAN coexistence functions AFH, LEM, black channel listing
- Protocol-transparent communication on Layer 2
- Degree of protection IP65
- Range\* of up to 200 m
- External RSMA antenna connection

## Commercial data

Item number	2701416
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNN2B1
GTIN	4046356749725
Weight per piece (including packing)	255.7 g
Weight per piece (excluding packing)	120 g
Customs tariff number	85176200
Country of origin	SE

## Technical data

### Product properties

Product type	Wireless module
Type	Stand-alone

### Wireless card

Number	1
Assembly note	Permanently installed

### Electrical properties

Maximum power dissipation for nominal condition	1.104 W
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### Supply: Module electronics

Connection method	M12 connector, A-coded (male)
Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Supply current	46 mA (at 24 V DC)
Current consumption	46 mA (at 24 V DC)

### Input data

#### Digital:

Number of inputs	1
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### Interfaces

#### Ethernet

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

#### Antenna

Number	1
Connection method	RSMA (male)
Gain	3 dBi ((2.4 GHz))
Length	83 mm

#### Functions

Operating modes	BT access point
Configuration	Web interface, MODE button, AT commands (TCP/IP), SSC
Automatic channel selection	FHSS, AFH
Quality of service (QoS)	Yes
Security	128-bit data encryption
	Authentication
	PIN

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	Non-discoverable
Wireless licenses	Europe, additional countries in the e-shop
Country support	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Japan
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)

## Wireless

Designation	Bluetooth
Antenna connection method	RSMA (female)
Frequency range	2.402 GHz ... 2.48 GHz (ISM bandwidth)
Frequency band	2.4 GHz
Wireless standard	Bluetooth 2.1 + EDR
Transmission power	max. 12 dBm (EIRP)

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Number of wireless interfaces	1
Wireless modules that can be connected	7
Profiles supported	PAN

## Dimensions

Width	66 mm
Height	91 mm
Depth	34 mm
Note on dimensions	Without connections

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 65 °C
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 90 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 90 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	Panel mounting, optional DIN rail mounting
	Panel mounting
Assembly note	External OMNI omnidirectional antenna supplied as standard, antennas can be exchanged

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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.)	No substance above 0.1 wt%
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