

FL BT EPA MP - Wireless module



2701416

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

2701416

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

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
---	---------

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
------------------	---

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

FL BT EPA MP - Wireless module



2701416

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

	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)

FL BT EPA MP - Wireless module



2701416

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

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)
------------------	---------------------------------------

Mounting

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

2701416

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

Environmental product compliance

EU RoHS

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

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com