

# FL EPA 2 RSMA - Wireless module



1005957

<https://www.phoenixcontact.com/gb/products/1005957>

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Combined Ethernet wireless module with Bluetooth and Wi-Fi, exchangeable omni antenna included, 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
- With replaceable RSMA antenna (included)

## Commercial data

Item number	1005957
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN2B1
Product key	DNN2B1
Catalog page	Page 374 (C-6-2019)
GTIN	4055626477022
Weight per piece (including packing)	167.2 g
Weight per piece (excluding packing)	180 g
Customs tariff number	85176200
Country of origin	SE

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### 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
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#### 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
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### Connection data

#### Power supply input

Connection method	M12 connector, A-coded (male)
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### Interfaces

#### Ethernet

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

#### Antenna

Number	1
Connection method	RSMA (male)

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Gain	3 dBi ((2.4 GHz / 5 GHz))
Length	107 mm

## Functions

Operating modes	Access point/client adapter for WLAN and Bluetooth
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
	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	

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	Slovakia
	Slovenia
	Spain
	South Korea
	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	RSMA (female)
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	excluding M12 connections and antenna connection

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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

## EMC data

### Electrostatic discharge

Standards/regulations	EN 61000-4-2
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### Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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### Fast transients (burst)

Standards/regulations	EN 61000-4-4
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### Surge current load (surge)

Standards/regulations	EN 61000-4-5
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### Conducted interference

Standards/regulations	EN 61000-4-6
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### Emitted interference

Standards/regulations	EN 55022
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## Mounting


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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1005957>

 **UL Listed**  
Approval ID: E238705

 **cUL Listed**  
Approval ID: E238705

 **cUL Listed**  
Approval ID: E196811

 **UL Listed**  
Approval ID: E196811

**cULus Listed**

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## Classifications

### ECLASS

ECLASS-11.0	19170101
ECLASS-12.0	19170101
ECLASS-13.0	19170101

### ETIM

ETIM 9.0	EC000515
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### 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	3e7dfd8-21e9-483b-9480-6a196dad2c01

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