

# FL EPA 2 RSMA - Wireless module



1005957

<https://www.phoenixcontact.com/us/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	DN26
Product key	DNN2B1
GTIN	4055626477022
Weight per piece (including packing)	169.2 g
Weight per piece (excluding packing)	169 g
Customs tariff number	85176200
Country of origin	SE

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## 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)
pluggable	yes

### Interfaces

#### Ethernet

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

#### Antenna

Number	1
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Connection method	RSMA (male)
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	

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	Switzerland
	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

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Note on dimensions	excluding M12 connections and antenna connection
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## 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
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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

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 **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-15.0	19170101
ECLASS-13.0	19170101

### ETIM

ETIM 10.0	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

### EF3.1 Climate Change

CO2e kg	11.281 kg CO2e
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