

# 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
Catalog page	Page 375 (C-6-2019)
GTIN	4055626476568
Weight per piece (including packing)	152.4 g
Weight per piece (excluding packing)	151.8 g
Customs tariff number	85176200
Country of origin	SE

## Technical data

### Product properties

Product type	Wireless module
Application	Ethernet
Type	Stand-Alone

### Wireless card

Number	1
Assembly instructions	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 connectors (D-coded, female)

#### 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

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	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
	Thailand
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)

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## 10/100 Mbps Ethernet

Number of interfaces	1
Connection method	M12 connectors (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

## 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

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## 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	Wall mounting
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Assembly instructions	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: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 196811



**UL 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

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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## Accessories

### FL EPA RMS - DIN rail adapter

2701133

<https://www.phoenixcontact.com/us/products/2701133>

Set for mounting devices with EPA design on a DIN rail



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### FL EPA WMS - Mounting adapter

2701134

<https://www.phoenixcontact.com/us/products/2701134>

Set for mounting devices with EPA design to wall or mast, including mast clips for a diameter of 25 - 85 mm, can be moved on two axes for optimum alignment, stainless steel



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## VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

<https://www.phoenixcontact.com/us/products/1656725>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

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## NBC-M12MSD/ 2,0-93E CMC - Bus system cable

1569391

<https://www.phoenixcontact.com/us/products/1569391>



Bus system cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Plug straight M12, coding: D, on free cable end, cable length: 2 m

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## NBC-M12MSD/ 5,0-93E CMC - Bus system cable

1569401

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Bus system cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Plug straight M12, coding: D, on free cable end, cable length: 5 m

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## NBC-M12MSD/ 1,0-93E/R4AC - Network cable

1407360

<https://www.phoenixcontact.com/us/products/1407360>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Advanced Shielding Technology, Plug straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 1 m

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## NBC-M12MSD/ 2,0-93E/R4AC - Network cable

1407361

<https://www.phoenixcontact.com/us/products/1407361>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Advanced Shielding Technology, Plug straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 2 m

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## NBC-M12MSD/ 5,0-93E/R4AC - Network cable

1407362

<https://www.phoenixcontact.com/us/products/1407362>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Advanced Shielding Technology, Plug straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 5 m

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## SAC-4P- 2,0-PUR/M12FS - Sensor/actuator cable

1533576

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 2 m

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## SAC-4P- 3,0-PUR/M12FS - Sensor/actuator cable

1668111

<https://www.phoenixcontact.com/us/products/1668111>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 3 m

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## SAC-4P- 5,0-PUR/M12FS - Sensor/actuator cable

1668124

<https://www.phoenixcontact.com/us/products/1668124>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 5 m

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## SAC-4P-10,0-PUR/M12FS - Sensor/actuator cable

1683002

<https://www.phoenixcontact.com/us/products/1683002>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 10 m

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