

FL BT EPA 2 - Wireless module

1005869

<https://www.phoenixcontact.com/us/products/1005869>



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Bluetooth/Ethernet wireless module, 2.1+EDR/4.0, PAN P2P, internal antenna, IP65, 9 V DC ... 30 V DC, M12 connection, WEB, AT-commands and mode button

Your advantages

- Bluetooth wireless modul
- Protocol-transparent communication on Layer 2
- Degree of protection IP65
- Integrated antenna



Commercial data

Item number	1005869
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNN2B1
GTIN	4055626476087
Weight per piece (including packing)	156 g
Weight per piece (excluding packing)	105 g
Customs tariff number	85176200
Country of origin	LT

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. 36 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)

Functions

Configuration	Web interface, MODE button, AT commands (TCP/IP), SSC
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Security	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
	Canada
	Croatia
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)
	Japan
	Cyprus (rep.)
10/100 Mbps Ethernet	
Number of interfaces	1

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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
Antenna connection method	(Internal)
Frequency range	2.402 GHz ... 2.48 GHz (Bluetooth)
Frequency band	2.4 GHz
Wireless standard	Bluetooth 2.1 + EDR
Transmission power	max. 10 dBm
Number of wireless interfaces	1 Bluetooth 2.1+EDR, Bluetooth LE 4.0
Wireless modules that can be connected	1
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

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

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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	Internal antenna

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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, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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EF3.1 Climate Change

CO2e kg	26.66 kg CO2e
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com