FL EPA 2 RSMA - Wireless module

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)

ELEKTROGERÄTE RÜCKNAHME

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)	170 g
Weight per piece (excluding packing)	180 g
Customs tariff number	85176200
Country of origin	LT

Technical data

Notes

Note on application

Note on application	Only for industrial use

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

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

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

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

	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

Note on dimensions	excluding M12 connections and antenna connection

Material specifications

Color (Housing)	black (RAL 9005)

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

Electromagnetic HF field

Standards/regulations	EN 61000-4-3

Fast transients (burst)

Standards/regulations	EN 61000-4-4

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Conducted interference

Standards/regulations	EN 61000-4-6

Emitted interference

Standards/regulations	EN 55022

Mounting

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

Approvals

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

UL Listed
Approval ID: E238705

cUL Listed
Approval ID: E238705

cUL Listed
Approval ID: E196811

UL Listed
Approval ID: E196811

Classifications

ECLASS

ECLASS-15.0	19170101
ECLASS-13.0	19170101

ETIM

ETIM 10.0	EC000515

UNSPSC

UNSPSC 21.0	43201400

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	3e7fdfd8-21e9-483b-9480-6a196dad2c01

EF3.1 Climate Change

CO2e kg	11.281 kg CO2e

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