

Wireless module - FL EPA 2 RSMA - 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

Why buy this product

- ✓ With replaceable RSMA antenna (included)
- ✓ Protocol-transparent communication on Layer 2
- ✓ IP65 protection class
- ✓ Combined wireless module for WLAN and Bluetooth

Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 477022
GTIN	4055626477022

Technical data

Dimensions

Width	67.8 mm
Height	92.7 mm
Depth	33.2 mm
Note on dimensions	excluding M12 connections and antenna connection

Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	non-condensing
Permissible humidity (storage/transport)	non-condensing
Degree of protection	IP65

Ethernet interface

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Technical data

Ethernet interface

Interface	Ethernet
Number	1
Connection method	M 12 connectors (D-coded, female)
Interface	10/100 Mbps Ethernet
Number of interfaces	1
Connection method	M 12 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 interface

Designation	Bluetooth / WLAN
Wireless standard	Bluetooth 2.1 + EDR
	IEEE 802.11
	b
	g
	a
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
Transmission power	max. 16 dBm (Bluetooth: 10 dBm)
Number of wireless interfaces	1 IEEE 802.11 a/b/g, Bluetooth 2.1+EDR
Wireless modules that can be connected	7 (BT 2.1+EDR, NAP-Mode)

Wireless card

Number	1
Assembly instructions	Permanently installed

Antenna

Assembly instructions	External OMNI omnidirectional antenna supplied as standard, antennas can be exchanged
Number	1
Connection method	RSMA (male)
Gain	3 dBi ((2.4 GHz/5 GHz))
Length	107 mm

Power supply for module electronics

Connection method	M12 connector (A-coded, male)
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Power supply for module electronics

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)

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

Digital inputs

Number of inputs	1
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General

Mounting type	Wall mounting
Net weight	180 g
Wireless licenses	Europe, USA, Canada, additional countries in the e-shop
	RED (Radio Equipment Directive)
	FCC 47 CFR part 15, subpart B
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg

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Technical data

General

	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)
	Japan

Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 3g, 11 ms half-sine shock pulse
	Vibration resistance in acc. 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
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 55022
	EN 61000-4-6

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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PHOENIX CONTACT GmbH & Co. KG
Flachmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>