Wireless module - FL EPA 2 - 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

Why buy this product

- Integrated antenna
- Protocol-transparent communication on Layer 2
- IP65 protection class
- Combined wireless module for WLAN and Bluetooth

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 476568
GTIN	4055626476568

Technical data

Dimensions

Width	67.8 mm
Height	92.7 mm
Depth	33.2 mm
Note on dimensions	Without M12 connections

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	(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
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	Internal antenna
Number	1

Power supply for module electronics

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)

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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

General

Mounting type	Wall mounting
Net weight	166 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
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal

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Technical data

General

	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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