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Wireless module - FL WLAN EPA RSMA - 2701169

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WLAN Ethernet port adapter with external RSMA antenna connection; as wireless connection of an Ethernet interface to a WLAN access point, omnidirectional antenna supplied as standard

Product Features

- External RSMA antenna connection
- Maximum security according to IEEE 802.11i with AES encryption
- 2.4 GHz and 5 GHz supported
- IP65 protection class

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	260.0 g
Country of origin	Sweden

Technical data

Dimensions

Width	66 mm
Height	91 mm
Depth	34 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)	5 % ... 90 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 90 % (non-condensing)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)
Degree of protection	IP65

Ethernet interface

Interface	Ethernet

PHŒNIX CONTACT

Wireless module - FL WLAN EPA RSMA - 2701169

Technical data

Ethernet interface

Number	1
Connection method	M 12 connectors (D-coded, female)

Wireless interface

Designation	Wireless LAN
Wireless standard	IEEE 802.11
	b
	g
	a
	n
Antenna connection method	RSMA (female)
Frequency range	2.402 GHz ... 5.25 GHz (ISM bandwidth)
Frequency band	2.4 GHz/5 GHz
Transmission power	max. 20 dBm (EIRP)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n
Wireless modules that can be connected	1

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)
Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Supply current	76 mA (at 24 V DC)
Current consumption	76 mA (at 24 V DC)

Functions

Operating modes	Ethernet client adapter
Configuration	Web interface, MODE button, AT commands (TCP/IP), SSC
Automatic channel selection	Yes

PHŒNIX CONTACT

Wireless module - FL WLAN EPA RSMA - 2701169

Technical data

Functions

Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2 PSK
	AES
	WEP 64 bit/128 bit
	TKIP
	Supports 802.1X/RADIUS

Digital inputs

Number of inputs	1

General

Mounting type	Wall mounting
Net weight	120 g
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

Wireless module - FL WLAN EPA RSMA - 2701169

Technical data

General

	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)
Mounting type	Wall mounting

Standards and Regulations

Conformity with EMC directives	Noise immunity test in accordance with EN 61000-6-2 EN 61000-6-4
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Classifications

eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	19170202

ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC001423
ETIM 5.0	EC000817

UNSPSC

UNSPSC 6.01	20142601
UNSPSC 7.0901	20142601
UNSPSC 11	20142601
UNSPSC 12.01	20142601
UNSPSC 13.2	20142601

Wireless module - FL WLAN EPA RSMA - 2701169

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Listed

cUL Listed

EAC

EAC

cULus Listed

Accessories

Accessories

Antenna

Wireless module - FL WLAN EPA RSMA - 2701169

Accessories

Antenna - RAD-ISM-2400-ANT-OMNI-2-1-RSMA - 2701362

Omnidirectional antenna, 2.4 GHz, 2 dBi, linear vertical, 1.5 m cable, RSMA (male), IP65, 50 Ω impedance
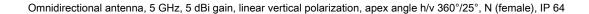
Antenna - RAD-ISM-2459-ANT-FOOD-6-0 - 2692526

Dual band omnidirectional antenna with protection against vandalism; IP68 protection; frequency band/gain: 2.4 GHz/up to 6 dBi, 5 GHz/up to 8 dBi; EN 50155; temperature range: -40°C to +80°C; N (f) connection; 1 m long adapter cable, N (m) - SMA (m) connection.

Antenna - RAD-ISM-2400-ANT-OMNI-6-0 - 2885919

Omnidirectional antenna, 2.4 GHz, 6 dBi, linear vertical, opening angle h/v 360°/30°, N (female), IP55, incl. mounting bracket and mast clips for 45 mm - 100 mm diameter, stainless steel, ATEX & IECEx approval

Antenna - ANT-OMNI-5900-01 - 2701347

Omnidirectional antenna, 5 GHz, 5 dBi gain, linear vertical polarization, apex angle h/v 360°/25°, N (female), IP 64

Antenna - ANT-DIR-2459-01 - 2701186

Panel antenna, 2.4/5 GHz, 9 dBi, linear vertical, N (female), IP67, incl. mounting bracket and mast clips for 25 mm - 85 mm diameter, stainless steel, ATEX & IECEx approval

Assembly adapter

PHŒNIX CONTACT

Wireless module - FL WLAN EPA RSMA - 2701169

Accessories

Assembly adapters - FL EPA WMS - 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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Coaxial cable

Antenna cable - RAD-PIG-RSMA/N-0.5 - 2903263

Antenna cable, 0.5 m in length; N (male) -> RSMA (male), impedance 50 ohms

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Antenna cable - RAD-PIG-RSMA/N-1 - 2903264

Antenna cable, 1 m in length; N (male) -> RSMA (male), impedance 50 ohms

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Antenna cable - RAD-PIG-RSMA/N-2 - 2903265

Antenna cable, 2 m in length; N (male) -> RSMA (male), impedance 50 ohms

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Antenna cable - RAD-PIG-RSMA/N-3 - 2903266

Antenna cable, 3 m in length; N (male) -> RSMA (male), impedance 50 ohms

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PHŒNIX CONTACT

Wireless module - FL WLAN EPA RSMA - 2701169

Accessories

Data cable preassembled

Network cable - VS-MSD-IP20-93E/1,0 - 1403498

Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26, stranded (7-wire), RAL 5021 (aqua blue), M12 plug to RJ45 plug/IP20, line, length 1 m

Data plug

RJ45 connector - VS-08-RJ45-5-Q/IP20 - 1656725

RJ45 connector, Degree of protection: IP20, Number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), Material: PA, Connection method: IDC fast connection, Connection cross section: AWG 26-23, Cable exit: straight

Mounting rail adapter

DIN rail adapter - FL EPA RMS - 2701133

Set for mounting devices with EPA design on a DIN rail

Sensor/actuator cable

Sensor/Actuator cable - SAC-4P- 1,5-PUR/M12FS - 1668108

Sensor/Actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 1.5 m

Wireless module - FL WLAN EPA RSMA - 2701169

Accessories

Sensor/Actuator cable - SAC-4P- 3,0-PUR/M12FS - 1668111

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

Sensor/Actuator cable - SAC-4P- 5,0-PUR/M12FS - 1668124

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

Sensor/Actuator cable - SAC-4P-10,0-PUR/M12FS - 1683002

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