

## Wireless module - FL WLAN EPA RSMA - 2701169

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




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

### Why buy this product

- 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 STK
GTIN	 4 046356 712415
GTIN	4046356712415
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85176200
Country of origin	Sweden

### Technical data

#### Dimensions

Width	66 mm
Height	91 mm
Depth	34 mm
Note on dimensions	Without M12 connections

#### Ambient conditions

## Wireless module - FL WLAN EPA RSMA - 2701169

### Technical data

#### 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
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
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)
-------------------	-------------------------------

## Wireless module - FL WLAN EPA RSMA - 2701169

### Technical data

#### Power supply for module electronics

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
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	260 g
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein

## Wireless module - FL WLAN EPA RSMA - 2701169

### Technical data

#### General

	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	USA
	Cyprus (rep.)
Mounting type	Wall mounting

#### Standards and Regulations

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
------------------	--------------------------------------

#### Environmental Product Compliance

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

### 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

# Wireless module - FL WLAN EPA RSMA - 2701169

## Classifications

### ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC001423
ETIM 5.0	EC000817
ETIM 6.0	EC000817

### UNSPSC

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

## Approvals

### Approvals

---

#### Approvals

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

---

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

---

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
-----------	--	-------------------------------------------------------------------------------------------------------------------------------------------------------	---------------

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
------------	--	-------------------------------------------------------------------------------------------------------------------------------------------------------	---------------

EAC		EAC-Zulassung
-----	--	---------------

## Wireless module - FL WLAN EPA RSMA - 2701169

### Approvals

EAC		RU *- DE.A*30.B.01735
-----	--	--------------------------

cULus Listed	
--------------	--

### Accessories

#### Accessories

#### Antenna

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  $\Omega$  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, h/v 360°/30° opening angle, N (female), IP67, incl. mounting bracket and mast clips for 45 mm ... 100 mm diameter, stainless steel, ATEX & IECEx approval, seawater-resistant

## Wireless module - FL WLAN EPA RSMA - 2701169

### Accessories

#### 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

#### 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



---

### 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



---

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

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



## Wireless module - FL WLAN EPA RSMA - 2701169

### Accessories

---

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



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

---

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



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

---

### Data cable preassembled

Network cable - NBC-MSD/ 5,0-93E/R4AC SCO - 1407362



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON / IP67, Coding: D, on Plug straight RJ45 / IP20, Cable length: 5 m

---

Network cable - NBC-MSD/ 1,0-93E/R4AC SCO - 1407360



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON / IP67, Coding: D, on Plug straight RJ45 / IP20, Cable length: 1 m

---

### Mounting rail adapter

## Wireless module - FL WLAN EPA RSMA - 2701169

### Accessories

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

---

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

---

