

## Wireless module - FL WLAN 1011 - 2702900

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WLAN access point, client with two external antenna connections (RSMA-F), IP20, temperature range :0°C ... +60°C, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, connections: COMBICON 9 V DC ... 32 V DC, RJ45: for LAN, web, http/https, CLI, REST API

The figure shows a version of the product



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 458090
GTIN	4055626458090
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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#### Dimensions

Width	63 mm
Height	26 mm
Depth	113 mm
Note on dimensions	Installed dimensions without connector

#### Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
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### Technical data

#### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	800 hPa ... 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Degree of protection	IP20

#### Wireless interface

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n
Frequency band	2.4 GHz
	5 GHz
Transmission power	max. 19 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802. 11 a/b/g/n
Wireless modules that can be connected	10 (In Access Point mode max. 2 SSIDs)

#### Functions

Configuration	Web-based management, automated CLI
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	MAC filter
	Supports 802.1X/RADIUS

#### Wireless card

Number	1
Type	IEEE 802.11 a/b/g/n 2.4 GHz and 5 GHz to 300 Mbps
Assembly instructions	Permanently installed

#### Antenna

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## Technical data

### Antenna

Assembly instructions	Antennas not included in scope of supply
Number	2

### Ethernet interface

Interface	Ethernet (RJ45)
Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)

### Power supply for module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Number of positions	3
Cross section range AWG	24 ... 16 (Use copper wires rated 75° C (UL))
Note on the connection method	Recommended conductor cross section: 0.75 mm <sup>2</sup>
	Recommended ferrule: connection length 10 mm
	Recommended crimping pliers: trapezoidal or square
Supply voltage	24 V DC (SELV)
Supply voltage range	9 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 150 mA (at 24 V DC)
Current consumption	max. 550 mA (at 9 V DC)

### Connection data

Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Connection method	Push-in spring connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	10 mm

### General

Housing material	Polycarbonate, PC
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### Technical data

#### General

Material base plate	Die-cast zinc, nickel-plated
Mounting type	DIN rail mounting
Net weight	259.7 g
Degree of pollution	2
Wireless licenses	USA, Canada

#### Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g, 11 ms half-sine shock pulse
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g, 10 ... 150 Hz
	Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g, 16 ms, 6000 shocks
	Broadband noise according to EN 60068-2-64 Category 1, Class A
Standards/regulations	EN 61000-4-2
Contact discharge	± 4 kV
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 100 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m
Standards/regulations	EN 61000-4-4
Comments	±2.2 kV
Standards/regulations	EN 61000-4-5
Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)
Standards/regulations	EN 55022
Test result	Class B
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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### Classifications

#### eCl@ss

eCl@ss 10.0.1	19170501
eCl@ss 11.0	19170501
eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170200
eCl@ss 7.0	19170201
eCl@ss 9.0	19170201

#### ETIM

ETIM 3.0	EC000817
ETIM 4.0	EC000816
ETIM 6.0	EC000816
ETIM 7.0	EC000816

#### UNSPSC

UNSPSC 6.01	43172710
UNSPSC 7.0901	43223108
UNSPSC 11	43172710
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108
UNSPSC 18.0	43223108
UNSPSC 19.0	43223108
UNSPSC 20.0	43223108
UNSPSC 21.0	43223108

### Approvals

#### Approvals

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Approvals

cULus Listed

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Ex Approvals

cULus Listed / IECEx

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### Approvals

#### Approval details

cULus Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

### Accessories

#### Accessories

##### Antenna

###### Antenna - ANT-OMNI-2459-02 - 2701408



Omnidirectional antenna, 2.4 GHz/5 GHz, gain: 2.5 dBi/5 dBi, polarization: linear, opening angle: h/v 360°/30°/16°, degree of protection: IP68, connection: N (male), corresponding connecting cable for control cabinet feed-through (Item No. 2701402)

###### Antenna - ANT-DIR-2459-01 - 2701186



Directional antenna, 2.4 GHz/5 GHz, gain: 9 dBi, polarization: linear, opening angle: h/v 75°/55°, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clips, ATEX and IECEx approval

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



Omnidirectional antenna, 2.4 GHz, gain: 6 dBi, polarization: linear, opening angle: h/v 360°/30°, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval

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



Omnidirectional antenna, 2.4 GHz, gain: 2 dBi, polarization: linear, opening angle: h/v 360°/75°, degree of protection: IP65, connection: RSMA (male), incl. 1.5 m / 5 ft. connecting cable and mounting bracket for wall mounting

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### Accessories

#### Antenna - RAD-ISM-2400-ANT-VAN-3-0-RSMA - 2701358



Omnidirectional antenna with protection against vandalism, 2.4 GHz, gain: 3 dBi, polarization: linear, opening angle: h/ v 360°/85°, degree of protection: IP55, connection: RSMA (male), for control cabinet mounting (optional wall mounting), incl. 1.5 m / 5 ft. connecting cable

#### Antenna - RAD-ISM-2459-ANT-FOOD-6-0-N - 2702898



Omnidirectional antenna with protection against vandalism, 2.4 GHz/5 GHz, gain: 6 dBi/8 dBi, polarization: linear, opening angle: h 360°, degree of protection: IP68, resistant to cleaning agents, connection: N (female), for control cabinet mounting

### Coaxial cable

#### Antenna cable - RAD-PIG-EF316-N-RSMA - 2701402



Antenna cable for control cabinet feed-through, outside diameter: 3.2 mm (0.126 in.), inner conductor: stranded, attenuation: 0.6 / 0.9 / 1.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (female) -> RSMA (male), cable length: 0.5 m (1.6 ft.)

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



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)

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



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 1 m (3.3 ft.)

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### Accessories

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



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.9 / 1.3 / 2.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 2 m (6.5 ft.)

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



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 1.2 / 2.0 / 3.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 3 m (10 ft.)

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#### Antenna cable - RAD-PIG-RSMA/N-5 - 2702140



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 2.0 / 3.3 / 4.8 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 5 m (16 ft.)

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### Mounting rail adapter

#### DIN rail adapter - FL RMS 20 - 1178237



DIN rail adapter for screwing on switching devices