

## Wireless module - FL WLAN 1100 - 2702534

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WLAN access point, client with two internal antennas (MIMO) for single-hole mounting, IP54, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz (incl. DFS channels), connections: COMBICON 18 ... 32 V DC, RJ45: for LAN, web, http/https, Command Line Interface



### Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4055626278919
Weight per Piece (excluding packing)	370.200 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Dimensions

Width	62.8 mm
Height	36.5 mm
Depth	113.2 mm
Note on dimensions	Outside dimensions

#### Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °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 mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above mean sea level)
Degree of protection	IP54
Note	Degree of protection when installed

#### Wireless interface

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## Technical data

### Wireless interface

Designation	Wireless LAN
Wireless standard	IEEE 802.11
	a
	b
	g
	n
Antenna connection method	(Internal)
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	10 (In Access Point mode max. 2 SSIDs)

### Functions

Operating modes	Access Point / Client Adapter / Repeater
Configuration	Web-based management, automated CLI
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	MAC filter

### 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

Assembly instructions	Internal antenna
Number	2
Connection method	permanently installed
Note on connection method	MIMO
Gain	5 dBi

### Ethernet interface

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

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## Technical data

### Ethernet interface

Transmission length	100 m (per segment)
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### Power supply for module electronics

Connection method	Push-in spring connection
Designation	1966101 FMC 1,5/ 3-STF-3,5
Number of positions	3
Cross section range AWG	24 ... 16 (Use copper wires rated 75° C (UL))
Note on 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	18 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 120 mA (at 24 V DC)
Current consumption	max. 250 mA (at 18 V DC)

### Connection data

Designation	1966101 FMC 1,5/ 3-STF-3,5
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

Mounting type	Single-hole mounting
Net weight	370.2 g
Degree of pollution	2
Note	Degree of protection when installed
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Italy

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## Technical data

### General

	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic
	Hungary
	Cyprus (rep.)

### 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 ... 1000 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

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## Technical data

### Standards and Regulations

Test result	Class B
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

## Classifications

### eCl@ss

eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
eCl@ss 5.0	19030112
eCl@ss 5.1	19030112
eCl@ss 6.0	19170201
eCl@ss 7.0	19170201
eCl@ss 8.0	19170201
eCl@ss 9.0	19170201

### ETIM

ETIM 3.0	EC000817
ETIM 4.0	EC000816
ETIM 5.0	EC000816
ETIM 6.0	EC000816

### UNSPSC

UNSPSC 6.01	43172710
UNSPSC 7.0901	43223108
UNSPSC 11	43172710
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

## Accessories

### Accessories

#### Adapter

Adapter - FL M32 ADAPTER - 2702544



Accessories for FL-WLAN 1100 series: Optional cable feed-through for sealing (IP67) the FL-WLAN 110x connection (IP20), if the device is not directly integrated onto the closed housing. Not needed when mounting on a control cabinet, etc.

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### Accessories

#### Data plug

RJ45 connector - CUC-IND-C1ZNI-S/R4IE8 - 1421607



RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 26-24, cable outlet: straight

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#### Patch cable

Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

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#### PCB plug

Printed-circuit board connector - FMC 1,5/ 3-STF-3,5 - 1966101



Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 3.5 mm, connection method: Push-in spring connection, Color: green, contact surface: Tin