

Wireless module - FL WLAN 2100 - 2702535

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WLAN access point, client with two internal antennas (MIMO) for single-hole mounting, IP66/IP68, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz (incl. DFS channels), connections: COMBICON 9 ... 32 V DC, RJ45: for LAN, web, http/https, CLI

The figure shows a version of the product



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 278926
GTIN	4055626278926
Weight per Piece (excluding packing)	360.000 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)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

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Technical data

Ambient conditions

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	IP65
	IP66
	IP67
	IP68
Note	Degree of protection when installed

Wireless interface

Designation	Wireless LAN
Antenna connection method	(Internal)
Wireless standard	IEEE 802.11
	a
	b
	g
	n
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	60 (In access point mode)

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
	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

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Antenna

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

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	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 the connection method	Recommended conductor cross section: 0.75 mm ²
	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)
	9 V DC ... 32 V DC (PELV/SELV (HW version 06 or later))
Supply current	typ. 120 mA (at 24 V DC)
Current consumption	max. 250 mA (at 18 V DC)
	max. 400 mA (at 9 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 ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	24

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Connection data

Conductor cross section AWG max.	16
Stripping length	10 mm

General

Housing material	Polycarbonate, PC
Material base plate	Die-cast zinc, nickel-plated
Mounting type	Wall mounting, optional DIN rail adapter
Color	black
Net weight	370.2 g
Wireless licenses	EU, more countries in e-shop
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Italy
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain
	Czech Republic

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General

	Hungary
	Cyprus (rep.)
	China
	Japan
	South Korea
	Thailand
	Brazil
Note	Degree of protection when installed

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 61000-4-4
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
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"