

FL WLAN 1100 - Wireless module



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 9 ... 32 V DC, RJ45: for LAN, web, http/https, Command Line Interface

Commercial data

Item number	2702534
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN2W4
Product key	DNN2W4
Catalog page	Page 373 (C-6-2019)
GTIN	4055626278919
Weight per piece (including packing)	375 g
Weight per piece (excluding packing)	337 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Product properties

Product type	Wireless module
Type	Stand-Alone

Insulation characteristics

Overvoltage category	none
Pollution degree	2

Wireless card

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

Electrical properties

Maximum power dissipation for nominal condition	4.5 W
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Supply: Module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
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
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))
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 (from HW version 05))
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

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

Connection method	Push-in spring connection
Conductor cross section, rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16
Stripping length	10 mm

Interfaces

Antenna

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Number	2
Connection method	permanently installed
Note on the connection method	MIMO
Gain	5 dBi

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 licenses	EU, more countries in e-shop
Country support	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Italy
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
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	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Slovakia
	Slovenia
	Spain

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	Czech Republic
	Hungary
	Cyprus (rep.)
	China
	Japan
	South Korea
	Thailand
	Brazil
	Russia

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)
No. of channels	1 (RJ45 ports)

Wireless

Designation	Wireless LAN
Antenna connection method	(Internal)
Frequency band	2.4 GHz
	5 GHz
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n
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)

Dimensions

Dimensional drawing	
Width	62.8 mm
Height	36.5 mm

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Depth	113.2 mm
Note on dimensions	Outside dimensions

Material specifications

Color	black
Material base plate	Die-cast zinc, nickel-plated
Housing material	Polycarbonate, PC

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP54
Ambient temperature (operation)	0 °C ... 60 °C
Note	Degree of protection when installed
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)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

EMC data

Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 4 kV
Indirect discharge	± 6 kV

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Frequency range	80 MHz ... 1000 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m

Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Comments	±2.2 kV
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Surge current load (surge)

Standards/regulations	EN 61000-4-5
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Surge current load (surge)

Signal	± 0.5 kV (symmetrical)
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	± 1 kV (asymmetrical)
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Conducted interference

Standards/regulations	EN 61000-4-6
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Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

Emitted interference

Standards/regulations	EN 55022
Test result	Class B

Mounting

Mounting type	Single-hole mounting
Assembly note	Internal antenna

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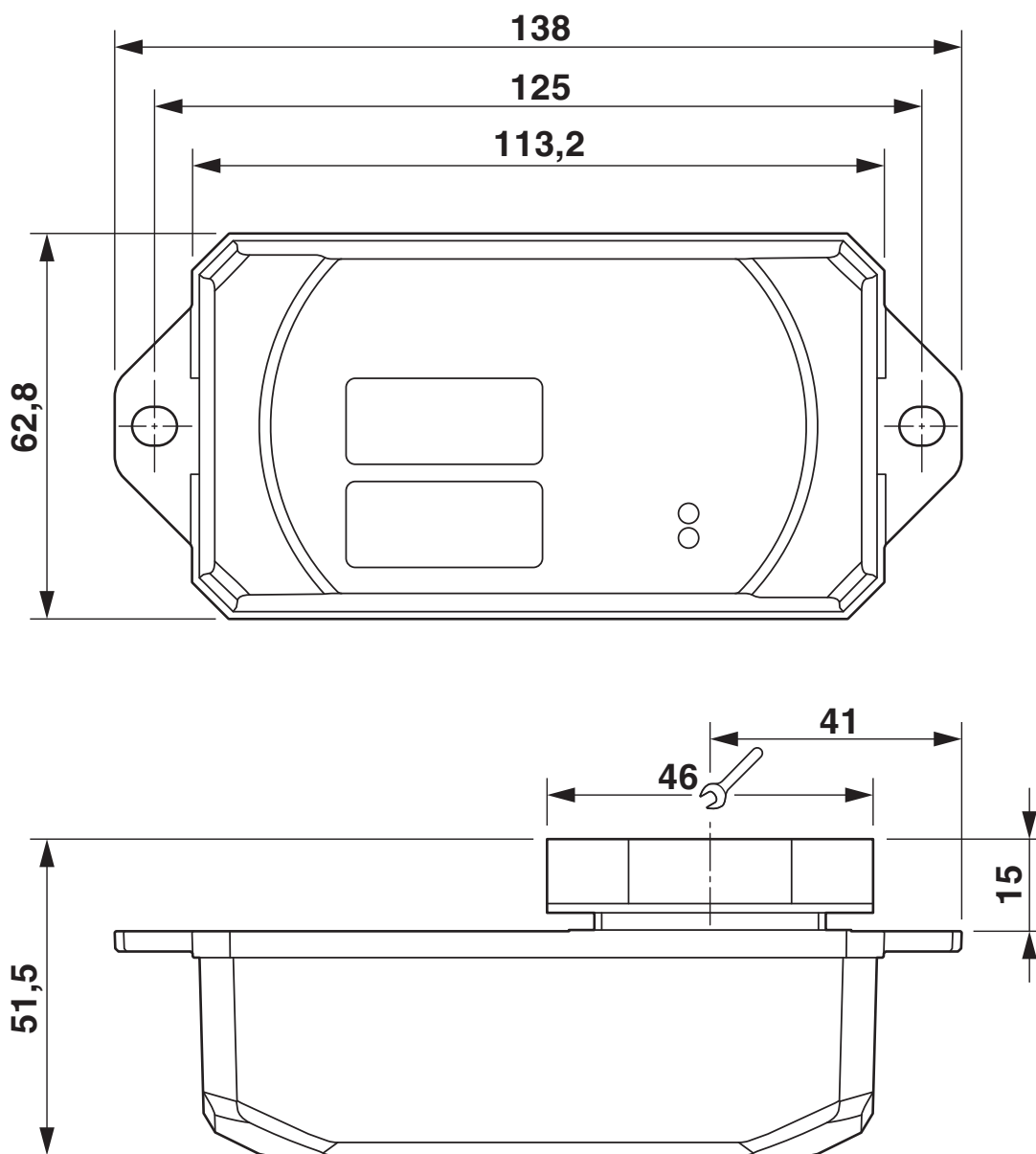
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Drawings

Dimensional drawing



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Approvals

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EAC

Approval ID: RU*-DE.*.B.00741/19



KC

Approval ID: R-CRI-PCK-2702535

ANATEL

Approval ID: 08144-18-06497

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Classifications

ECLASS

ECLASS-11.0	19170501
ECLASS-12.0	19170501
ECLASS-13.0	19170501

ETIM

ETIM 9.0	EC000816
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	a145e3bf-3d7b-48b6-85e6-446c8b2546e3
EF3.0 Climate Change	
CO2e kg	15.86 kg CO2e

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Accessories

FL M32 ADAPTER - Adapter

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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.

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

1421607

<https://www.phoenixcontact.com/gb/products/1421607>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: green, Ethernet

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FMC 1,5/ 3-STF-3,5 - PCB connectors

1966101

<https://www.phoenixcontact.com/gb/products/1966101>



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

FL CAT5 PATCH 1,5 - Patch cable

2832221

<https://www.phoenixcontact.com/gb/products/2832221>



Patch cable, CAT5, assembled, 1.5 m

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