FL WLAN 1120 - Wireless module

1386091

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WLAN client, soft access point, Wi-Fi 6, with internal antennas (MIMO) for single-hole mounting, IP66/68, -30°C ... +60°C, WLAN 802.11 a, b, g, n, ac, ax,frequency: 2.4 GHz, 5 GHz, connection data: 9 V DC ... 32 V DC, RJ45: for LAN, http/https, CLI, REST API

Your advantages

- Wi-Fi 6 (2,4/5 GHz)
- Gross data rate up to 2400 Mbps
- Fast roaming in cellular applications
- Controllable via REST API
- Highest safety WPA 2/3
- RJ45 with 10/100/1000 Mbps

Commercial data

Item number	1386091
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN2W4
GTIN	4063151762308
Weight per piece (including packing)	371 g
Weight per piece (excluding packing)	333 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Type	Stand-alone

Insulation characteristics

Overvoltage category	II (IEC 61010-1)

Wireless card

Type	IEEE 802.11 a/b/g/n/ac/ax 2,4 GHz, 5 GHz > 600 MBit/s
Assembly note	Permanently installed

Electrical properties

Maximum power dissipation for nominal condition	4.1 W
Test section	24 V supply / functional ground 500 V DC 1 min
	Ethernet interface/all other potentials 2.25 kV DC 1 min

Supply: Module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Note on the connection method	Recommended conductor cross-section: 0.75 mm²
	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
Supply voltage	24 V DC (SELV)
Supply voltage range	9 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 170 mA (at Unom/ 20°C/ max. data throughput)
Current consumption	max. 620 mA (At Umin/Tmax/max. data throughput)

Connection data

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

Connection method	Push-in spring connection
Conductor cross-section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section AWG	24 ... 16
Stripping length	10 mm

Interfaces

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Antenna

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

Functions

Configuration	Web-based management, automated CLI, REST API
Quality of service (QoS)	Yes
Wireless licenses	Europe, additional countries in the e-shop
Country support	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
	Hungary
	Cyprus (rep.)
	Japan
	China
	Singapore

Ethernet (RJ45)

Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 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
	ac
	ax
	Wi-Fi 6
Transmission power	max. 20 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n/ac/ax
Wireless modules that can be connected	20 (10 per virtual interface in AP mode)

Dimensions

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

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-30 °C ... 60 °C
Degree of protection	IP65
	IP66
	IP67
	IP68
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

Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV
Indirect discharge	± 6 kV

Electromagnetic HF field

Standards/regulations	EN 61000-4-3

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

Fast transients (burst)

Comments	±2.2 kV

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Surge current load (surge)

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

Conducted interference

Standards/regulations	EN 61000-4-6

Conducted interference

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

Emitted interference

Standards/regulations	EN 55032
Test result	Class B

Mounting

Mounting type	Single-hole mounting
Assembly note	Internal antenna

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Drawings

Dimensional drawing
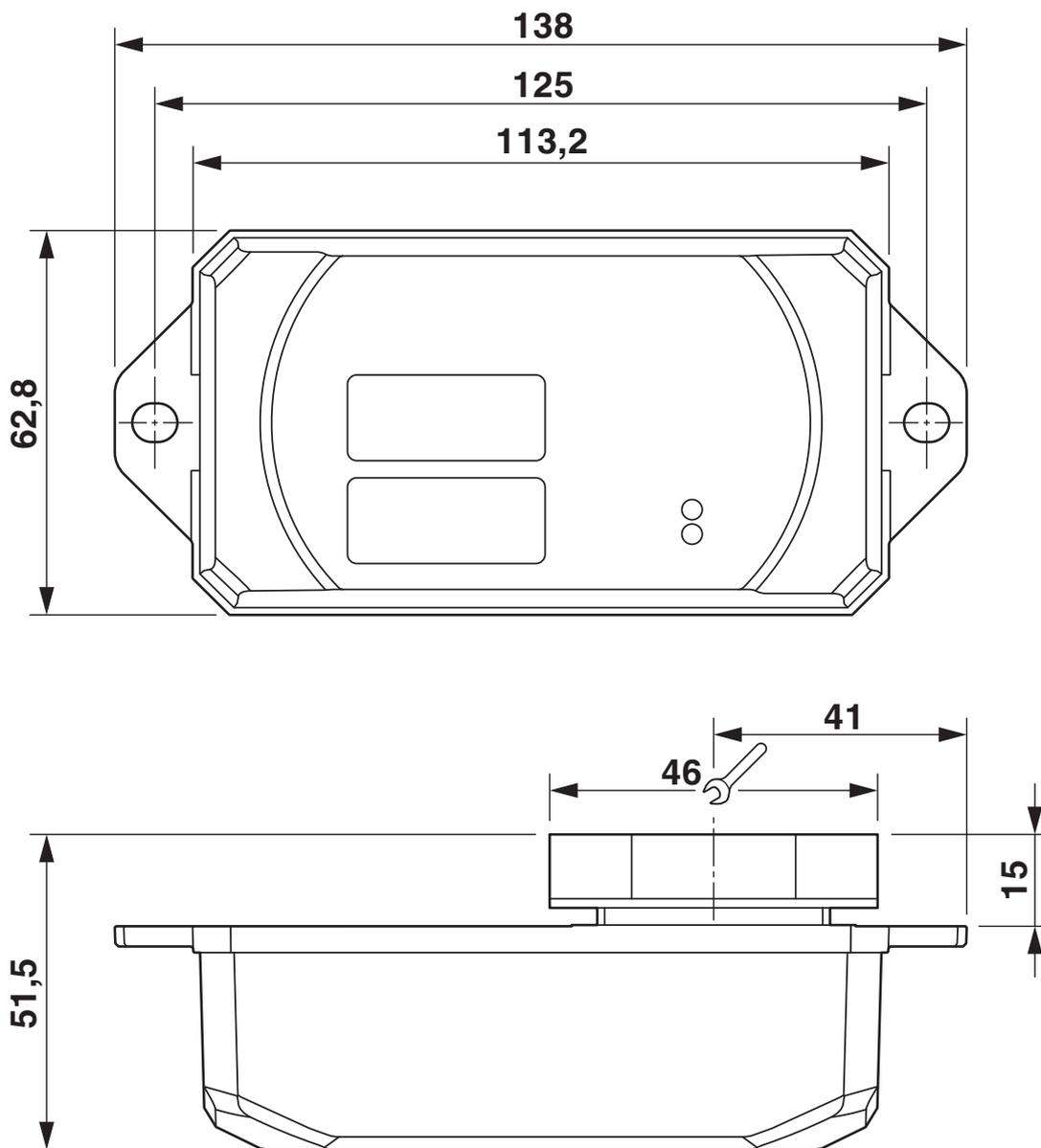
Classifications

ECLASS

ECLASS-13.0	19170501
ECLASS-15.0	19170501

ETIM

ETIM 10.0	EC000816

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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.)	4,4'-isopropylidenediphenol(CAS: 80-05-7)
	Lead(CAS: 7439-92-1)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)

Accessories

FL M32 ADAPTER - Adapter

2702544

https://www.phoenixcontact.com/pc/products/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.

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

1421607

https://www.phoenixcontact.com/pc/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 connector

1966101

https://www.phoenixcontact.com/pc/products/1966101

PCB connector, nominal cross section: 1.5 mm^2, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, 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 FMC 1,5 - MCDN 1,5, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

FL CAT5 PATCH 1,5 - Patch cable

2832221

https://www.phoenixcontact.com/pc/products/2832221

Patch cable, CAT5, assembled, 1.5 m