

# FL WLAN 2100 - Wireless module

2702535

<https://www.phoenixcontact.com/us/products/2702535>

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The figure shows a version of the product

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

## Commercial data

Item number	2702535
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNN2W4
GTIN	4055626278926
Weight per piece (including packing)	375 g
Weight per piece (excluding packing)	337 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Wireless module
Type	Stand-alone

#### 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 <sup>2</sup>
	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 (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

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

Connection method	Push-in spring connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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

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	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	

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	Spain
	Czech Republic
	Hungary
	Cyprus (rep.)
	Japan
	South Korea
	Thailand
	Brazil
	Russia
	Taiwan
	Philippines

## 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
	Wi-Fi 4
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)

## Dimensions

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

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 IP66 IP67 IP68
Ambient temperature (operation)	-40 °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)

### Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	30g, 11 ms half-sine shock pulse
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g, 10 ... 150 Hz
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g, 16 ms, 6000 shocks
Broadband noise in accordance with EN 60068-2-64	Category 1, Class A

## EMC data

### Electrostatic discharge

Contact discharge	± 4 kV
Indirect discharge	± 6 kV

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## 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)
	± 1 kV (asymmetrical)

## 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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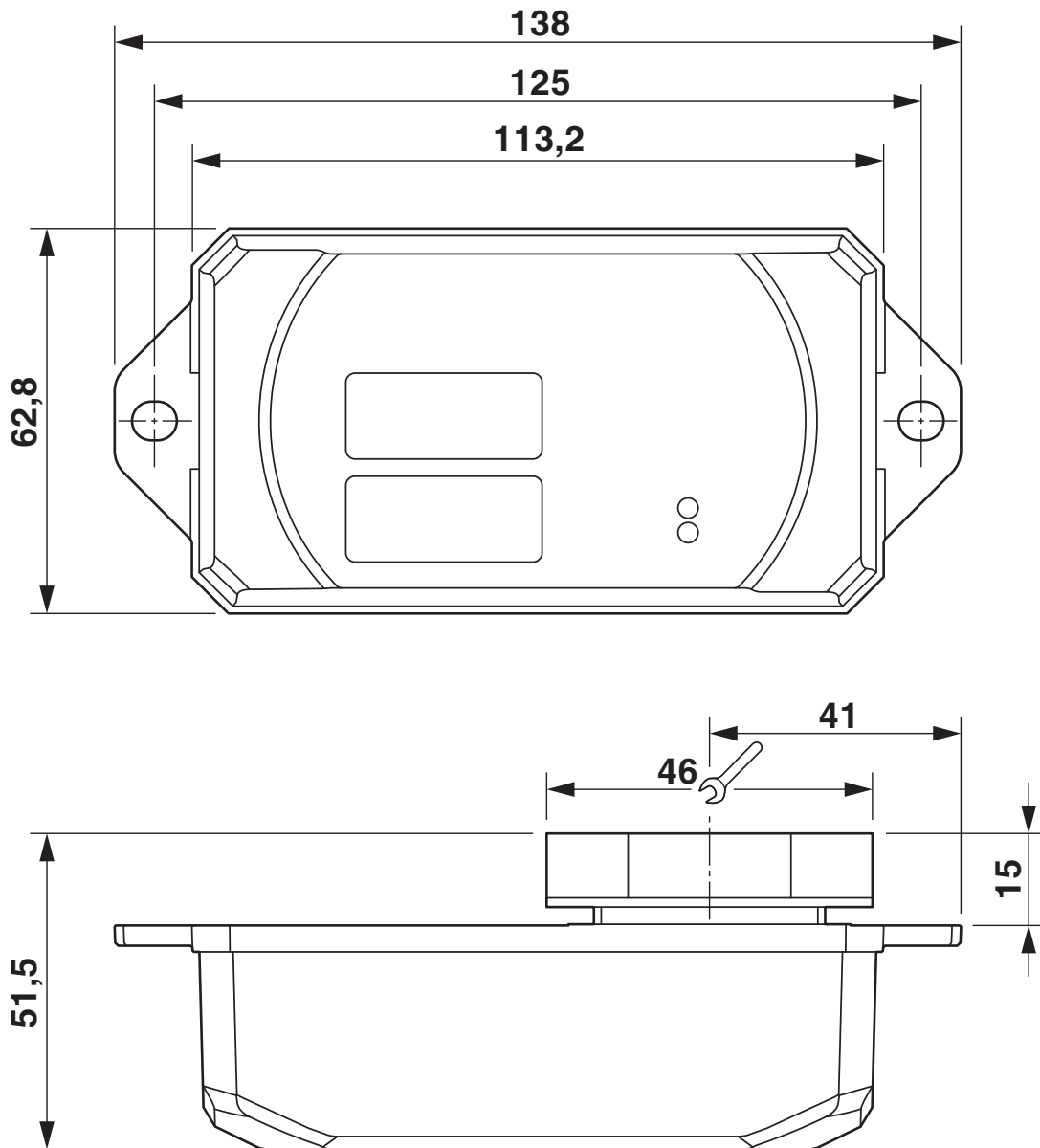


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## Drawings

Dimensional drawing



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## Approvals

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 **KC**  
Approval ID: R-CRI-PCK-2702535

 **cULus Listed**  
Approval ID: E238705

**ANATEL**  
Approval ID: 08144-18-06497

 **MIC**  
Approval ID: 007-AF0223

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## Classifications

### ECLASS

ECLASS-13.0	19170501
ECLASS-15.0	19170501

### ETIM

ETIM 10.0	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	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)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	7e03d282-220b-48de-8725-7d80de6f1c7c

### EF3.1 Climate Change

CO2e kg	17.36 kg CO2e
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