

# FL WLAN 5111 - Wireless module



1043201

<https://www.phoenixcontact.com/us/products/1043201>

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The figure shows a version of the product

WLAN access point for USA/Canada (FCC/IC), client, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, IP20, connections: COMBICON for 10 V DC ... 36 V DC, 2x RJ45 for LAN, central cluster management, WBM, 2 antennas (MIMO), 802.11i: WPA2, WPA-PSK, TKIP, AES

## Commercial data

Item number	1043201
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DN26
Product key	DNN2W4
GTIN	4055626601083
Weight per piece (including packing)	540.3 g
Weight per piece (excluding packing)	540.3 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

Pollution degree	2
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### 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	4.8 W
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### Supply: Module electronics

Connection method	Via COMBICON
Supply voltage	24 V DC
Supply voltage range	10 V DC ... 36 V DC
Supply current	200 mA (at 24 V DC)

### Interfaces

#### Antenna

Number	2
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#### Functions

Operating modes	Access Point / Client Adapter / Repeater
Basic functions	SNMP (V2/V3), CLI, WPS, DHCP, DCP, BootP, HTTP, HTTPS, Syslog, SD card, dual FW image, 1 x DI, 1 x DO, 2 x Ethernet 10/100 Mbit, auto crossover, auto negotiation, MODE button
Configuration	Cluster management, web-based management, WPS
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	Supports 802.1X/RADIUS
	MAC filter
Wireless licenses	USA, Canada

#### Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps

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Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	2 (RJ45 ports)

## Wireless

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Number	2
Frequency band	2.4 GHz 5 GHz
Wireless standard	WLAN IEEE 802.11 a b g n
Transmission power	max. 20 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n

## Dimensions

Width	40 mm
Height	109 mm
Depth	109 mm
Note on dimensions	Height with antenna socket, without antenna cable

## Material specifications

Color	silver gray
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (extended temperature range on request)
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 ... 80 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 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

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Broadband noise in accordance with EN 60068-2-64	Category 1, Class B
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## EMC data

### Electrostatic discharge

Standards/regulations	EN 61000-4-2
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### Electrostatic discharge

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

### Electromagnetic HF field

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

Comments	10 V/m
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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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### Emitted interference

Standards/regulations	EN 55022
Test result	Class B

## Mounting

Mounting type	DIN rail mounting
Assembly note	Antennas not included in scope of supply

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## Classifications

### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
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### 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.)	No substance above 0.1 wt%
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