

FL WLAN 5111 - Wireless module



1043201

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

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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	DNN
Product Key	DNN2W4
Catalog Page	Page 372 (C-6-2019)
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

Type	Stand-Alone
Product type	Wireless module

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 instructions	Permanently installed

Electrical properties

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
Transmission physics	Copper

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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 grey
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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)

EMC data

Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 6 kV
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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 instructions	Antennas not included in scope of supply

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Classifications

ECLASS

ECLASS-11.0

19170501

ETIM

ETIM 8.0

EC000816

UNSPSC

UNSPSC 21.0

43222600

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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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Accessories

ANT-OMNI-2459-02 - Antenna

2701408

<https://www.phoenixcontact.com/in/products/2701408>



Omnidirectional antenna for control cabinet mounting, frequency band: 2.4 GHz / 5 GHz, gain: 2.5 dBi / 5 dBi, degree of protection: IP68, connection: N (male)

RAD-ISM-2400-ANT-OMNI-6-0 - Antenna

2885919

<https://www.phoenixcontact.com/in/products/2885919>



Omnidirectional antenna for wall or mast mounting, 2.4 GHz, gain: 6 dBi, degree of protection: IP67, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval

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RAD-ISM-2400-ANT-OMNI-2-1-RSMA - Antenna

2701362

<https://www.phoenixcontact.com/in/products/2701362>



Omnidirectional antenna for wall mounting, frequency band: 2.4 GHz, gain: 2 dBi, degree of protection: IP65, connection: RSMA (male), incl. 1.5 m connecting cable, mounting bracket, and mounting material

RAD-ISM-2400-ANT-VAN-3-0-RSMA - Antenna

2701358

<https://www.phoenixcontact.com/in/products/2701358>



Omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 2.4 GHz, gain: 3 dBi, degree of protection: IP55, shockproof: IK08, connection: RSMA (male), incl. 1.5 m connecting cable

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ANT-OMNI-5900-01 - Antenna

2701347

<https://www.phoenixcontact.com/in/products/2701347>

Omnidirectional antenna for wall or mast mounting, 5 GHz, gain: 5 dBi, degree of protection: IP64, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps



ANT-DIR-2459-01 - Antenna

2701186

<https://www.phoenixcontact.com/in/products/2701186>

Directional antenna for wall or mast mounting, 2.4 GHz / 5 GHz, gain: 9 dBi, degree of protection: IP67, shockproof: IK06, saltwater-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



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ANT-DIR-5900-01 - Antenna

2701348

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Directional antenna, 5 GHz, gain: 9 dBi, polarization: $\pm 45^\circ$ dual-slant, opening angle: h/v $70^\circ/60^\circ$, degree of protection: IP67, seawater-resistant, connection: 2 x N (female), incl. mounting bracket and mast clips



RAD-PIG-EF316-N-RSMA - Antenna cable

2701402

<https://www.phoenixcontact.com/in/products/2701402>

Antenna cable for control cabinet feed-through, outside diameter: 3.2 mm (0.126 in.), inner conductor: stranded, attenuation: 0.6 / 0.9 / 1.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (female) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



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RAD-PIG-RSMA/N-0.5 - Antenna cable

2903263

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)

RAD-PIG-RSMA/N-1 - Antenna cable

2903264

<https://www.phoenixcontact.com/in/products/2903264>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 1 m (3.3 ft.)

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RAD-PIG-RSMA/N-2 - Antenna cable

2903265

<https://www.phoenixcontact.com/in/products/2903265>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.9 / 1.3 / 2.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 2 m (6.5 ft.)

RAD-PIG-RSMA/N-3 - Antenna cable

2903266

<https://www.phoenixcontact.com/in/products/2903266>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 1.2 / 2.0 / 3.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 3 m (10 ft.)

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SD FLASH 2GB - Program / configuration memory

2988162

<https://www.phoenixcontact.com/in/products/2988162>



Program and configuration memory, for extending the internal flash memory, pluggable, 2 GB.

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