PHŒNIX CONTACT

Wireless module - FL WLAN 5101 - 2701093

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ALTERNATIVE-ARTICLE: FL WLAN 5111 (1043201)
WWLAN 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 ...36 V DC, 2x RJ45 for LAN, WBM, MIMO technology, 802.11i

RoHS

WLAN

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356695039
Weight per Piece (excluding packing)	528.000 g
Custom tariff number	85176200
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.

Dimensions

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

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (extended temperature range on request)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Air pressure (operation)	800 hPa ... 1080 hPa (up to 2000 m above sea level)

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Technical data

Ambient conditions

Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Degree of protection	IP20

Wireless interface

Designation	Wireless LAN
Wireless standard	IEEE 802.11
	a
	b
	g
	n
Antenna connection method	RSMA (female)
Number	3
Frequency band	2.4 GHz
	5 GHz
Transmission power	max. 23 dBm (EIRP)
Number of wireless interfaces	1 IEEE 802. 11 a/b/g/n

Functions

Operating modes	Access point/client adapter/repeater/WDS bridge
Configuration	Cluster management, web-based management, WPS
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	Supports 802.1X/RADIUS
	MAC filter

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

Antenna

Assembly instructions	Antenna not included
Number	3

Ethernet interface

Interface	Ethernet
Number	2
Connection method	RJ45 socket

Power supply for module electronics

Connection method	Via COMBICON

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Technical data

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	10 V DC ... 36 V DC
Supply current	200 mA

General

Mounting type	DIN rail
Net weight	528 g
Degree of pollution	2
Wireless licenses	USA, Canada

Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Free fall in acc. with IEC 60068-2-32

Classifications

eCl@ss

eCl@ss 10.0.1	19170501
eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	19030100
eCl@ss 6.0	19170200
eCl@ss 7.0	19170201
eCl@ss 8.0	19170201
eCl@ss 9.0	19170201

ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC001698
ETIM 5.0	EC000816
ETIM 6.0	EC000816
ETIM 7.0	EC000816

UNSPSC

UNSPSC 6.01	43172710
UNSPSC 7.0901	43223108
UNSPSC 11	43172710
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

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Accessories

Accessories

Antenna

Antenna - ANT-OMNI-2459-02 - 2701408

Omnidirectional antenna, 2.4 GHz/5 GHz, gain: 2.5 dBi/5 dBi, polarization: linear, opening angle: h/v 360°/30°/16°, degree of protection: IP68, connection: N (male), corresponding connecting cable for control cabinet feed-through (Order No. 2701402)

Antenna - RAD-ISM-2400-ANT-OMNI-6-0 - 2885919

Omnidirectional antenna, 2.4 GHz, gain: 6 dBi, polarization: linear, opening angle: h/v 360°/30°, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clips, ATEX and IECEx approval

Antenna - RAD-ISM-2400-ANT-OMNI-2-1-RSMA - 2701362

Omnidirectional antenna, 2.4 GHz, gain: 2 dBi, polarization: linear, opening angle: h/v 360°/75°, degree of protection: IP65, connection: RSMA (male), incl. 1.5 m / 5 ft. connecting cable and mounting bracket for wall mounting

Antenna - RAD-ISM-2400-ANT-VAN-3-0-RSMA - 2701358

Omnidirectional antenna with protection against vandalism, 2.4 GHz, gain: 3 dBi, polarization: linear, opening angle: h/v 360°/85°, degree of protection: IP55, connection: RSMA (male), for control cabinet mounting (optional wall mounting), incl. 1.5 m / 5 ft. connecting cable

Antenna - ANT-OMNI-5900-01 - 2701347

Omnidirectional antenna, 5 GHz, gain: 5 dBi, polarization: linear, opening angle: h/v 360°/25°, degree of protection: IP64, connection: N (female), incl. mounting bracket and mast clips

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Accessories

Antenna - ANT-DIR-2459-01 - 2701186

Directional antenna, 2.4 GHz/5 GHz, gain: 9 dBi, polarization: linear, opening angle: h/v 75°/55°, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clips, ATEX and IECEx approval

Antenna - ANT-DIR-5900-01 - 2701348

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

Assembly element

Mounting plate - FL WLAN 5100 PA - 2701092

Mounting kit for FL WLAN 510x. Can be used to mount the device on a wall. Material: V2A.

Coaxial cable

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

Antenna cable - RAD-PIG-RSMA/N-0.5 - 2903263

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.)

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Accessories

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

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

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

Control box

Control box - FL RUGGED BOX - 2701204

Control box for robust construction of wireless systems for industrial applications, IP66, 25 x 18 x 13 cm, polycarbonate material, gray, drilled, incl. DIN rail, plugs, and screw connections, without devices

Control box - FL RUGGED BOX OMNI-1 - 2701430

IP66 control box set for constructing wireless systems for industrial applications, incl. three 2.4/5 GHz omnidirectional antennas that can be directly screwed on, with DIN rail, plugs, and screw connections, without devices

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Accessories

Control box - FL RUGGED BOX OMNI-2 - 2701439

Control box set for constructing wireless systems for industrial applications, incl. three 2.4/5 GHz omnidirectional antennas that can be directly screwed on, IP66, with DIN rail, plugs, and screw connections, with 100 ... 240 V power supply unit, without devices

Control box - FL RUGGED BOX DIR-1 - 2701440

Control box set for constructing wireless systems for industrial applications, incl. panel antenna and 3 m antenna cable for 2.4/5 GHz, IP66, with DIN rail, plugs, and screw connections, with 100 ... 240 V power supply unit, without devices

Parameterization memory

Program / configuration memory - SD FLASH 2GB - 2988162

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

Software - IPASSIGN - 2701094

IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.