

## Wireless module - FL WLAN 5101 - 2701093


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 695039
GTIN	4046356695039
Weight per Piece (excluding packing)	540.000 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### 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)

## Wireless module - FL WLAN 5101 - 2701093

### 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
Antenna connection method	RSMA (female)
Number	3
Wireless standard	IEEE 802.11
	a
	b
	g
	n
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
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 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

## Wireless module - FL WLAN 5101 - 2701093

### Technical data

#### Ethernet interface

Interface	Ethernet
Number	2
Connection method	RJ45 jack

#### Power supply for module electronics

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

#### General

Mounting type	DIN rail
Color	silver gray
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 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 9.0	19170201

#### ETIM

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

## Wireless module - FL WLAN 5101 - 2701093

### Classifications

#### UNSPSC

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

### 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 clamps, 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

## Wireless module - FL WLAN 5101 - 2701093

### Accessories

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

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:  $\pm 45^\circ$  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.

## Wireless module - FL WLAN 5101 - 2701093

### Accessories

#### 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.)

---

##### 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.)

## Wireless module - FL WLAN 5101 - 2701093

### Accessories

#### 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

---

##### 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.

## Wireless module - FL WLAN 5101 - 2701093

### Accessories

---

#### 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.

---