

Wireless module - FL WLAN 5100 - 2700718

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WLAN access point, 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, central cluster management, WBM, 802.11i: WPA2, WPA-PSK, TKIP, AES, connections for 3 antennas (MIMO technology)



WLAN

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 625395
Weight per Piece (excluding packing)	418.0 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 mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above mean sea level)
Degree of protection	IP20

Ethernet interface

Interface	Ethernet
Number	2
Connection method	RJ45 socket

Wireless module - FL WLAN 5100 - 2700718

Technical data

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 a/b/g/n

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	Antennas not included in scope of supply
Number	3

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

Functions

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

General

Net weight	418 g
Mounting type	DIN rail

Wireless module - FL WLAN 5100 - 2700718

Technical data

General

Pollution degree	2
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
ATEX	# II 3 G Ex nA nC IIC T4 Gc X (Please follow the special installation instructions in the documentation!)
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
Wireless licences	Belgium
	Bulgaria
	China
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Iceland
	Italy
	Canada
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
	Portugal
	Romania
	Sweden
	Switzerland
	Singapore
	Slovakia
	Slovenia
	Spain
	South Korea
	Czech Republic
	Hungary

Wireless module - FL WLAN 5100 - 2700718

Technical data

General

	Cyprus (rep.)
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Classifications

eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	19030112
eCl@ss 6.0	19170201
eCl@ss 7.0	19170201
eCl@ss 8.0	19170201

ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC000816
ETIM 5.0	EC000816

UNSPSC

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

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

ATEX

Approvals submitted

Approval details

Wireless module - FL WLAN 5100 - 2700718

Approvals

EAC

EAC

Accessories

Accessories

Antenna

Antenna - ANT-OMNI-2459-02 - 2701408



Omnidirectional antenna, 2.4 GHz/5 GHz, 2.5/5 dBi gain, linear vertical polarization, opening angle 2.4 GHz h/v 360°/30°, 5 GHz h/v 360°/16°, N (male), IP68; matching cable with panel feed-through Order No. 2701402

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



Omnidirectional antenna, 2.4 GHz, 6 dBi, linear vertical, opening angle h/v 360°/30°, N (female), IP55, incl. mounting bracket and mast clips for 45 mm - 100 mm diameter, stainless steel, ATEX & IECEx approval

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



Omnidirectional antenna, 2.4 GHz, 2 dBi, linear vertical, 1.5 m cable, RSMA (male), IP65, 50 Ω impedance

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



Omnidirectional antenna with protection against vandalism, 2.4 GHz, 3 dBi gain, IP55 degree of protection, 1.5 m cable length, RSMA connection (male), h/v 360°/85° apex angle. Appropriate mounting material is available for wall mounting.

Wireless module - FL WLAN 5100 - 2700718

Accessories

Antenna - ANT-OMNI-5900-01 - 2701347

Omnidirectional antenna, 5 GHz, 5 dBi gain, linear vertical polarization, apex angle h/v 360°/25°, N (female), IP 64



Antenna - ANT-DIR-2459-01 - 2701186

Panel antenna, 2.4/5 GHz, 9 dBi, linear vertical, N (female), IP67, incl. mounting bracket and mast clips for 25 mm - 85 mm diameter, stainless steel, ATEX & IECEx approval



Antenna - ANT-DIR-5900-01 - 2701348

Panel antenna, 5 GHz, 9 dBi, +/- 45° Dual Slant, opening angle h/v 70°/60°, 2* N (female), IP67, incl. mounting bracket and mast clips for 25 - 85 mm diameter, stainless steel



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

Adapter cable as control cabinet feed-through, N (female) -> RSMA (male), impedance: 50 Ω, length: 0.5 m



Wireless module - FL WLAN 5100 - 2700718

Accessories

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



Antenna cable, 0.5 m in length; N (male) -> RSMA (male), impedance 50 ohms

Antenna cable - RAD-PIG-RSMA/N-1 - 2903264



Antenna cable, 1 m in length; N (male) -> RSMA (male), impedance 50 ohms

Antenna cable - RAD-PIG-RSMA/N-2 - 2903265



Antenna cable, 2 m in length; N (male) -> RSMA (male), impedance 50 ohms

Antenna cable - RAD-PIG-RSMA/N-3 - 2903266



Antenna cable, 3 m in length; N (male) -> RSMA (male), impedance 50 ohms

Control box

Control box - FL RUGGED BOX - 2701204



Control box for rugged construction of wireless systems for industrial applications, IP65, 25 x 18 x 13 cm, polycarbonate material, gray, drilled, including DIN rail, plugs, and screw connections, without devices

Wireless module - FL WLAN 5100 - 2700718

Accessories

Control box - FL RUGGED BOX OMNI-1 - 2701430



IP65 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 IP65 omnidirectional antennas that can be directly screwed on, 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, IP65, with DIN rails, plugs, and screw connections, with 100 ... 240 V power supply unit, without devices

Parameterization memory

Memory - SD FLASH 2GB - 2988162

Program and configuration memory

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.