

Wireless module - FL WLAN 24 EC 802-11-US - 2700449

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WLAN client for the USA and Canada, 24 V DC, PoE; IEEE 802.11 a/b/g; 2.4 GHz; 5 GHz, client adapter; antenna diversity; web-based management; 802.11i, WPA2, WPA-PSK, RADIUS, WEP, TKIP, AES

Your advantages

- ✓ Integrated special antenna (EPA)
- ✓ Maximum security according to IEEE 802.11i with AES encryption
- ✓ 2.4 GHz and 5 GHz supported
- ✓ Protocol-transparent communication on Layer 2



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	1,740.000 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

Width	159 mm
Height	250 mm
Depth	65 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Permissible humidity (operation)	10 % ... 85 % (non-condensing)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above sea level)
Degree of protection	IP65

Ethernet interface

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Technical data

Ethernet interface

Interface	Ethernet
Number	1
Connection method	RJ45 socket

Wireless interface

Designation	Wireless card
Wireless standard	IEEE 802.11
	a
	b
	g
	n
Antenna connection method	RSMA (female)
Frequency band	2.4 GHz
	5 GHz
Transmission power	20 dBm (EIRP)
Number of wireless interfaces	1 IEEE 802.11 a/b/g
Wireless modules that can be connected	256 (More than)

Wireless card

Number	1
Type	IEEE 802.11a/b/g, 2.4 and 5 GHz to 54 Mbps
Assembly instructions	Permanently installed

Antenna

Assembly instructions	External OMNI omnidirectional antenna, the antennas can be exchanged
Number	2
Connection method	RSMA (male)

Power supply for module electronics

Connection method	Via COMBICON
Supply voltage	24 V DC (PoE)
Supply voltage range	18.5 V DC ... 30.5 V DC
Supply current	400 mA (Recommended protection 2AT)

Functions

Operating modes	Ethernet client adapter
Configuration	Multilingual web-based interface (German/English) under http or https, with password protection
Automatic channel selection	Yes
Quality of service (QoS)	Yes

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Technical data

Functions

Virtual LAN (VLAN) support 802.1Q	Yes
Security	WEP 64 bit/128 bit
	WEPplus
	WPA TKIP
	802.11i WPA2 (RSN,AES)
	WPA PSK (preshared key)
	WPA group & master rekeying

General

Mounting type	Wall mounting on adapter plate
Net weight	1300 g
Wireless licenses	USA, Canada
Wireless licences	USA
	Canada
Mounting type	Adapter plate

Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 25g
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Classifications

eCl@ss

eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
eCl@ss 5.0	19030112
eCl@ss 5.1	19030112
eCl@ss 6.0	19170201
eCl@ss 7.0	19170201
eCl@ss 8.0	19170202

ETIM

ETIM 2.0	EC000816
ETIM 3.0	EC000817
ETIM 4.0	EC000816
ETIM 5.0	EC000817

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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 - RAD-ISM-5200-ANT-OMNI-5-0 - 2692034



The antenna is required for the FL WLAN 24 / 230... devices from FW 3.0.1, if they are operated in the 5 GHz range (802.11a/h). It is an omnidirectional antenna with a 5 dBi gain. The antenna now fits directly onto the devices.

Configuration memory

Memory - FL WLAN SIM - 2692539



The SIM card is a replaceable configuration memory. It helps in saving the device settings for easy device replacement and commissioning of FL WLAN 24/230 modules.

Services

Service item - PROJECT ENGINEERING - 2850863



Our experienced Project Management team will guide you through all the important project phases and provide you with customized services.

Simulation software

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Accessories

Software - FL WST BASIC DEMO - 2692377



Simulation software for supporting the planning of wireless systems in industrial environments. Their functionality is limited with regard to the memory options as compared with the full version FL WST BASIC.

Software - FL WST BASIC - 2692254



Simulation software for supporting the planning of wireless systems in industrial environments. Thus, the later number and position of wireless components can be estimated and the quality of the radio coverage simulated.
