

# Wireless module - FL WLAN 24 DAP 802-11-US - 2700451

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Factoryline Wireless WLAN dual access point 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

## Why buy this product

- Range of several hundred meters\*
- High resistance to vibration, shock, and EMI
- Maximum security according to IEEE 802.11i with AES encryption
- 2.4 GHz and 5 GHz supported



## Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 124 (AX-2011)
GTIN	 4 046356 553049
Custom tariff number	85176200
Country of origin	GERMANY

## Technical data

### Ethernet interface

Interface	Ethernet
Number	1
Connection method	RJ45 female connector

### Wireless interface

Name	Wireless card
Wireless standard	IEEE 802.11
Wireless standard	a
Wireless standard	b
Wireless standard	g
Wireless standard	h
Frequency band	2.4 GHz

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## Technical data

### Wireless interface

Frequency band	5 GHz
Transmission power	20 dBm (EIRP)
Number of wireless interfaces	2 IEEE 802.11 a/b/g
Wireless modules that can be connected	256 (More than)

### Wireless card

Number	2
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	4
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)
Current consumption	400 mA (Recommended protection 2AT)

### Functions

Operating modes	Access Point
Configuration	Multilingual web-based interface (German/English) under http or https, with password protection
Automatic channel selection	Yes
Quality of service (QoS)	Yes
Virtual LAN (VLAN) support 802.1Q	Yes
Security	WEP 64 bit/128 bit
Security	WEPplus
Security	WPA TKIP
Security	802.11i WPA2 (RSN, AES)
Security	WPA PSK (preshared key)
Security	WPA group & master rekeying

### General data

Width	159 mm
Height	250 mm
Depth	65 mm
Weight	1300 g
Mounting type	Wall mounting on adapter plate
Ambient temperature (operation)	-20 °C ... 55 °C
Permissible humidity (operation)	10 % ... 85 % (no condensation)
Air pressure (operation)	795 hPa ... 1080 hPa (up to 2000 m above mean sea level)

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## Technical data

### General data

Degree of protection	IP65
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Mechanical tests	Shock in acc. with IEC 60068-2-27:1997 25g
Mechanical tests	Vibration (operation) in acc. with IEC 60068-2-6:1982 5g
Wireless licences	USA
Wireless licences	Canada

## Classifications

### eclass

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

### etim

ETIM 2.0	EC000816
ETIM 3.0	EC000817
ETIM 4.0	EC000816

### unspsc

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

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed / cUL Listed

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Ex Approvals

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Approvals submitted

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### Approvals

#### Approval details

UL Listed

cUL Listed

cUL Listed

### Accessories

#### Accessories

##### Antennas

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.

##### 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.

##### Software

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.

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### Accessories

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.

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