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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Wireless module - FL WLAN 230 AP 802-11-US - 2700452

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Factoryline Wireless WLAN access point for the USA and Canada, 110/230 V AC, 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 553056 |
| 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 | 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 | 110 V AC (PoE) |
| Supply voltage range | 110 V AC ... 230 V AC |
| 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) |

Wireless module - FL WLAN 230 AP 802-11-US - 2700452

Technical data

General data

| | |
|----------------------|--|
| Degree of protection | IP65 |
| Protection class | I, 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 4.1 | 24010504 |
| eCl@ss 5.0 | 19030112 |
| eCl@ss 5.1 | 19030112 |
| eCl@ss 6.0 | 19170201 |
| eCl@ss 7.0 | 19170201 |

etim

| | |
|----------|----------|
| 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

Approvals

UL Listed / cUL Listed / cUL Listed

Ex Approvals

Approvals submitted

Approval details

Wireless module - FL WLAN 230 AP 802-11-US - 2700452

Approvals

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.

Wireless module - FL WLAN 230 AP 802-11-US - 2700452

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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