

Wireless module - FL WLAN 2100 - 2702535

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WLAN access point, client with two internal antennas (MIMO) for single-hole mounting, IP66/IP68, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz (incl. DFS channels), connections: COMBICON 9 ... 32 V DC, RJ45: for LAN, web, http/https, CLI

The figure shows a version of the product



WLAN

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 278926 |
| GTIN | 4055626278926 |

Technical data

Dimensions

| | |
|--------------------|--------------------|
| Width | 62.8 mm |
| Height | 36.5 mm |
| Depth | 113.2 mm |
| Note on dimensions | Outside dimensions |

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Air pressure (operation) | 800 hPa ... 1080 hPa (up to 2000 m above sea level) |
| Air pressure (storage/transport) | 660 hPa ... 1080 hPa (up to 3500 m above sea level) |
| Degree of protection | IP65 |
| | IP66 |
| | IP67 |
| | IP68 |
| Note | Degree of protection when installed |

Wireless module - FL WLAN 2100 - 2702535

Technical data

Wireless interface

| | |
|--|---------------------------|
| Designation | Wireless LAN |
| Wireless standard | IEEE 802.11 |
| | a |
| | b |
| | g |
| | n |
| Antenna connection method | (Internal) |
| Frequency band | 2.4 GHz |
| | 5 GHz |
| Transmission power | max. 20 dBm (EIRP) |
| Number of wireless interfaces | 1 IEEE 802.11 a/b/g/n |
| Wireless modules that can be connected | 60 (In access point mode) |

Functions

| | |
|--------------------------|--|
| Operating modes | Access Point / Client Adapter / Repeater |
| Configuration | Web-based management, automated CLI |
| Quality of service (QoS) | Yes |
| Security | 802.11i |
| | WPA PSK (preshared key) |
| | WPA2 |
| | AES |
| | TKIP |
| | MAC filter |
| | Supports 802.1X/RADIUS |

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 | Internal antenna |
| Number | 2 |
| Connection method | permanently installed |
| Note on the connection method | MIMO |
| Gain | 5 dBi |

Ethernet interface

| | |
|-------------------------------|-----------------------------------|
| Interface | Ethernet (RJ45) |
| Number of interfaces | 1 |
| Connection method | RJ45 |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed | 10/100 Mbps |

Wireless module - FL WLAN 2100 - 2702535

Technical data

Ethernet interface

| | |
|----------------------|---------------------|
| Transmission physics | Copper |
| Transmission length | 100 m (per segment) |

Power supply for module electronics

| | |
|-------------------------------|---|
| Connection technology | COMBICON |
| Connection method | Push-in spring connection |
| Designation | 1966101 FMC 1,5/ 3-STF-3,5 |
| Number of positions | 3 |
| Cross section range AWG | 24 ... 16 (Use copper wires rated 75° C (UL)) |
| Note on the connection method | Recommended conductor cross section: 0.75 mm ² |
| | Recommended ferrule: connection length 10 mm |
| | Recommended crimping pliers: trapezoidal or square |
| Supply voltage | 24 V DC (SELV) |
| Supply voltage range | 18 V DC ... 32 V DC (PELV/SELV) |
| | 9 V DC ... 32 V DC (PELV/SELV (HW version 06 or later)) |
| Supply current | typ. 120 mA (at 24 V DC) |
| Current consumption | max. 250 mA (at 18 V DC) |
| | max. 400 mA (at 9 V DC) |

Connection data

| | |
|---------------------------------------|----------------------------|
| Designation | 1966101 FMC 1,5/ 3-STF-3,5 |
| Connection method | Push-in spring connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |
| Stripping length | 10 mm |

General

| | |
|-------------------|-------------------------------------|
| Mounting type | Single-hole mounting |
| Net weight | 370.2 g |
| Note | Degree of protection when installed |
| Wireless licenses | EU, more countries in e-shop |
| Wireless licences | Belgium |
| | Bulgaria |
| | Denmark |
| | Germany |
| | Estonia |
| | Finland |
| | France |

Wireless module - FL WLAN 2100 - 2702535

Technical data

General

| | |
|--|----------------|
| | Greece |
| | Great Britain |
| | Ireland |
| | Italy |
| | Latvia |
| | Liechtenstein |
| | Lithuania |
| | Luxembourg |
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |
| | Portugal |
| | Romania |
| | Sweden |
| | Switzerland |
| | Slovakia |
| | Slovenia |
| | Spain |
| | Czech Republic |
| | Hungary |
| | Cyprus (rep.) |
| | China |
| | Japan |
| | South Korea |
| | Thailand |
| | Brazil |

Standards and Regulations

| | |
|-----------------------|--|
| Mechanical tests | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g, 11 ms half-sine shock pulse |
| | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g, 10 ... 150 Hz |
| | Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g, 16 ms, 6000 shocks |
| | Broadband noise according to EN 60068-2-64 Category 1, Class A |
| Standards/regulations | EN 61000-4-2 |
| Contact discharge | ± 4 kV |
| Indirect discharge | ± 6 kV |
| Standards/regulations | EN 61000-4-4 |
| Comments | ±2.2 kV |

Wireless module - FL WLAN 2100 - 2702535

Technical data

Standards and Regulations

| | |
|-----------------------|------------------------|
| Standards/regulations | EN 61000-4-5 |
| Signal | ± 0.5 kV (symmetrical) |
| | ± 1 kV (asymmetrical) |
| Standards/regulations | EN 55022 |
| Test result | Class B |
| Standards/regulations | EN 61000-4-6 |
| Frequency range | 0.15 MHz ... 80 MHz |
| Voltage | 10 V |

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 19170501 |
| eCl@ss 4.0 | 24010504 |
| eCl@ss 4.1 | 24010504 |
| eCl@ss 5.0 | 19030100 |
| eCl@ss 5.1 | 19030100 |
| eCl@ss 6.0 | 19170200 |
| eCl@ss 7.0 | 19170201 |
| eCl@ss 8.0 | 19170201 |
| eCl@ss 9.0 | 19170201 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC000817 |
| ETIM 4.0 | EC000816 |
| ETIM 5.0 | EC000816 |
| ETIM 6.0 | EC000816 |
| ETIM 7.0 | EC000816 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172710 |
| UNSPSC 7.0901 | 43223108 |
| UNSPSC 11 | 43172710 |
| UNSPSC 12.01 | 43223108 |
| UNSPSC 13.2 | 43223108 |
| UNSPSC 18.0 | 43223108 |
| UNSPSC 19.0 | 43223108 |
| UNSPSC 20.0 | 43223108 |
| UNSPSC 21.0 | 43223108 |

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Approvals

Approvals

Approvals

EAC / KC / KC / EAC / ANATEL

Ex Approvals

Approval details

| | | | |
|--------|--|---|--------------------------|
| EAC | | | RU *- DE.A*30.B.01735 |
| KC | | http://eng.kcc.go.kr/user/ehpMain.do | R-CRI-PCK-2702535 |
| KC | | http://eng.kcc.go.kr/user/ehpMain.do | R-CRI-PCK-2702535 |
| EAC | | | RU*- DE.*.B.00741/19 |
| ANATEL | | https://sistemas.anatel.gov.br/mosaico/sch/publicView/listarProdutosHomologados.xhtml | 08144-18-06497 |

Accessories

Accessories

Adapter

Adapter - FL M32 ADAPTER - 2702544



Accessories for FL-WLAN 1100 series: Optional cable feed-through for sealing (IP67) the FL-WLAN 110x connection (IP20), if the device is not directly integrated onto the closed housing. Not needed when mounting on a control cabinet, etc.

Data plug

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Accessories

RJ45 connector - CUC-IND-C1ZNI-S/R4IE8 - 1421607



RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 26- 24, cable outlet: straight, color: green

Patch cable

Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

PCB plug

Printed-circuit board connector - FMC 1,5/ 3-STF-3,5 - 1966101



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 3, pitch: 3.5 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

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