

FL WLAN 5110 - Wireless module

1043193

<https://www.phoenixcontact.com/gb/products/1043193>

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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 2 antennas (MIMO technology)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1043193 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNN2W4 |
| Product key | DNN2W4 |
| GTIN | 4055626599977 |
| Weight per piece (including packing) | 534.4 g |
| Weight per piece (excluding packing) | 530 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

Technical data

Notes

Utilization restriction

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

Product properties

| | |
|------|-------------|
| Type | Stand-alone |
|------|-------------|

Insulation characteristics

| | |
|------------------|---|
| Pollution degree | 2 |
|------------------|---|

Wireless card

| | |
|---------------|---|
| Number | 1 |
| Type | IEEE 802.11 a/b/g/n 2.4 GHz and 5 GHz to 300 Mbps |
| Assembly note | Permanently installed |

Electrical properties

| | |
|---|-------|
| Maximum power dissipation for nominal condition | 4.8 W |
|---|-------|

Supply: Module electronics

| | |
|----------------------|---------------------|
| Connection method | Via COMBICON |
| Supply voltage | 24 V DC |
| Supply voltage range | 10 V DC ... 36 V DC |
| Supply current | 200 mA (at 24 V DC) |

Interfaces

Antenna

| | |
|--------|---|
| Number | 2 |
|--------|---|

Functions

| | |
|-----------------------------|--|
| Operating modes | Access Point / Client Adapter / Repeater |
| Basic functions | SNMP (V2/V3), CLI, WPS, DHCP, DCP, BootP, HTTP, HTTPS, Syslog, SD card, dual FW image, 1 x DI, 1 x DO, 2 x Ethernet 10/100 Mbit, auto crossover, auto negotiation, MODE button |
| 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 |
| Wireless licenses | EU, more countries in e-shop |

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| | |
|-----------------|----------------|
| Country support | Belgium |
| | Bulgaria |
| | China |
| | Denmark |
| | Germany |
| | Estonia |
| | Finland |
| | France |
| | Greece |
| | Great Britain |
| | Ireland |
| | Iceland |
| | Italy |
| | Latvia |
| | Liechtenstein |
| | Lithuania |
| | Luxembourg |
| | Malta |
| | Netherlands |
| | Norway |
| | Austria |
| | Poland |
| | Portugal |
| | Romania |
| | Sweden |
| | Switzerland |
| | Slovakia |
| | Slovenia |
| | Spain |
| | Czech Republic |
| Hungary | |
| Cyprus (rep.) | |
| South Korea | |
| Thailand | |
| Japan | |
| Brazil | |

Ethernet (RJ45)

| | |
|-------------------------------|-----------------------------------|
| Connection method | RJ45 |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed | 10/100 Mbps |
| Transmission physics | Copper |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |

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| | |
|-----------------|----------------|
| No. of channels | 2 (RJ45 ports) |
|-----------------|----------------|

Wireless

| | |
|-------------------------------|---|
| Designation | Wireless LAN |
| Antenna connection method | RSMA (female) |
| Number | 2 |
| Frequency band | 2.4 GHz 5 GHz |
| Wireless standard | WLAN IEEE 802.11 a b g n |
| Transmission power | max. 20 dBm (with two antennas) |
| Number of wireless interfaces | 1 IEEE 802. 11 a/b/g/n |

Dimensions

| | |
|--------------------|---|
| Width | 40 mm |
| Height | 109 mm |
| Depth | 109 mm |
| Note on dimensions | Height with antenna socket, without antenna cable |

Material specifications

| | |
|-------|-------------|
| Color | silver gray |
|-------|-------------|

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C (extended temperature range on request) |
| 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) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

EMC data

Electrostatic discharge

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

Electrostatic discharge

| | |
|--------------------|--------|
| Contact discharge | ± 6 kV |
| Discharge in air | ± 8 kV |
| Indirect discharge | ± 6 kV |

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Electromagnetic HF field

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

Electromagnetic HF field

| | |
|----------|--------|
| Comments | 10 V/m |
|----------|--------|

Fast transients (burst)

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

Fast transients (burst)

| | |
|----------|---------|
| Comments | ±2.2 kV |
|----------|---------|

Emitted interference

| | |
|-----------------------|----------|
| Standards/regulations | EN 55022 |
|-----------------------|----------|

| | |
|-------------|---------|
| Test result | Class B |
|-------------|---------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

| | |
|---------------|--|
| Assembly note | Antennas not included in scope of supply |
|---------------|--|

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Classifications

ECLASS

ECLASS-13.0

19170501

ETIM

ETIM 9.0

EC000816

UNSPSC

UNSPSC 21.0

43222600

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Environmental product compliance

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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