

# FL WLAN 2101 - Wireless module



2702540

<https://www.phoenixcontact.com/us/products/2702540>

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WLAN access point, client for USA and Canada, with 2 internal antennas for single-hole mounting, IP66/IP68, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, connections: COMBICON 9 ... 32 V DC, RJ45: for LAN, web, http/https, CLI

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2702540             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | DN26                |
| Product key                          | DNN2W4              |
| Catalog page                         | Page 373 (C-6-2019) |
| GTIN                                 | 4055626279503       |
| Weight per piece (including packing) | 375 g               |
| Weight per piece (excluding packing) | 337 g               |
| Customs tariff number                | 85176200            |
| Country of origin                    | DE                  |

## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

#### Trade restriction

|         |                                                                                                |
|---------|------------------------------------------------------------------------------------------------|
| CE note | The products are offered exclusively for export outside the EU and the European Economic Area. |
|---------|------------------------------------------------------------------------------------------------|

### Product properties

|              |                 |
|--------------|-----------------|
| Product type | Wireless module |
| Type         | Stand-Alone     |

#### Data management status

|                  |    |
|------------------|----|
| Article revision | 10 |
|------------------|----|

#### Insulation characteristics

|                      |      |
|----------------------|------|
| Overvoltage category | none |
| 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 | 4.5 W |
|-------------------------------------------------|-------|

#### Supply: Module electronics

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Connection technology         | COMBICON                                                  |
| Connection method             | Push-in spring connection                                 |
| Note on the connection method | Recommended conductor cross section: 0.75 mm <sup>2</sup> |
|                               | Recommended ferrule: connection length 10 mm              |
|                               | Recommended crimping pliers: trapezoidal or square        |
| 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))             |
| 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

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## 1966101 FMC 1,5/ 3-STF-3,5

|                                   |                           |
|-----------------------------------|---------------------------|
| Connection method                 | Push-in spring connection |
| Conductor cross section, rigid    | 0.2 mm² ... 1.5 mm²       |
| Conductor cross section, flexible | 0.2 mm² ... 1.5 mm²       |
| Conductor cross section AWG       | 24 ... 16                 |
| Stripping length                  | 10 mm                     |

## Interfaces

### Antenna

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

### 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 licenses        | USA, Canada                              |
| Country support          | USA                                      |
|                          | Canada                                   |

### Ethernet (RJ45)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Number of interfaces          | 1                                 |
| 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)               |
| No. of channels               | 1 (RJ45 ports)                    |

### Wireless

|                           |              |
|---------------------------|--------------|
| Designation               | Wireless LAN |
| Antenna connection method | (Internal)   |
| Frequency band            | 2.4 GHz      |
|                           | 5 GHz        |
|                           | WLAN         |

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|                                        |                           |
|----------------------------------------|---------------------------|
| Wireless standard                      | IEEE 802.11               |
|                                        | a                         |
|                                        | b                         |
|                                        | g                         |
|                                        | n                         |
| 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) |

## Dimensions

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

## Material specifications

|                     |                              |
|---------------------|------------------------------|
| Material base plate | Die-cast zinc, nickel-plated |
| Housing material    | Polycarbonate, PC            |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| Degree of protection                     | IP65                                                |
|                                          | IP66                                                |
|                                          | IP67                                                |
|                                          | IP68                                                |
| Ambient temperature (operation)          | -40 °C ... 60 °C                                    |
| Note                                     | Degree of protection when installed                 |
| 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 ... 85 °C                                    |
| Permissible humidity (operation)         | 5 % ... 95 % (non-condensing)                       |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                       |

## EMC data

### Electrostatic discharge

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|                            |                              |
|----------------------------|------------------------------|
| Standards/regulations      | EN 61000-4-2                 |
| Electrostatic discharge    |                              |
| Contact discharge          | $\pm 4$ kV                   |
| Discharge in air           | $\pm 8$ kV                   |
| Indirect discharge         | $\pm 6$ kV                   |
| Electromagnetic HF field   |                              |
| Standards/regulations      | EN 61000-4-3                 |
| Electromagnetic HF field   |                              |
| Frequency range            | 80 MHz ... 1000 MHz          |
| Test field strength        | 10 V/m                       |
| Frequency range            | 1000 MHz ... 6000 MHz        |
| Test field strength        | 3 V/m                        |
| Fast transients (burst)    |                              |
| Standards/regulations      | EN 61000-4-4                 |
| Fast transients (burst)    |                              |
| Comments                   | $\pm 2.2$ kV                 |
| Surge current load (surge) |                              |
| Standards/regulations      | EN 61000-4-5                 |
| Surge current load (surge) |                              |
| Signal                     | $\pm 0.5$ kV (symmetrical)   |
|                            | $\pm 1$ kV (asymmetrical)    |
| Conducted interference     |                              |
| Standards/regulations      | EN 61000-4-6                 |
| Conducted interference     |                              |
| Frequency range            | 0.15 MHz ... 80 MHz          |
| Voltage                    | 10 V                         |
| Emitted interference       |                              |
| Standards/regulations      | FCC/CFR 47, Part 15.107      |
| Test result                | Class B                      |
| Emitted interference       |                              |
| Standards/regulations      | FCC/CFR 47, Part 15.109      |
| Test result                | Class A                      |
| Emitted interference       |                              |
| Standards/regulations      | ICES-003 Issue 6 section 6.1 |
| Test result                | Class B                      |
| Emitted interference       |                              |
| Standards/regulations      | ICES-003 Issue 6 section 6.2 |

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|             |         |
|-------------|---------|
| Test result | Class A |
|-------------|---------|

## Mounting

|               |                      |
|---------------|----------------------|
| Mounting type | Single-hole mounting |
| Assembly note | Internal antenna     |

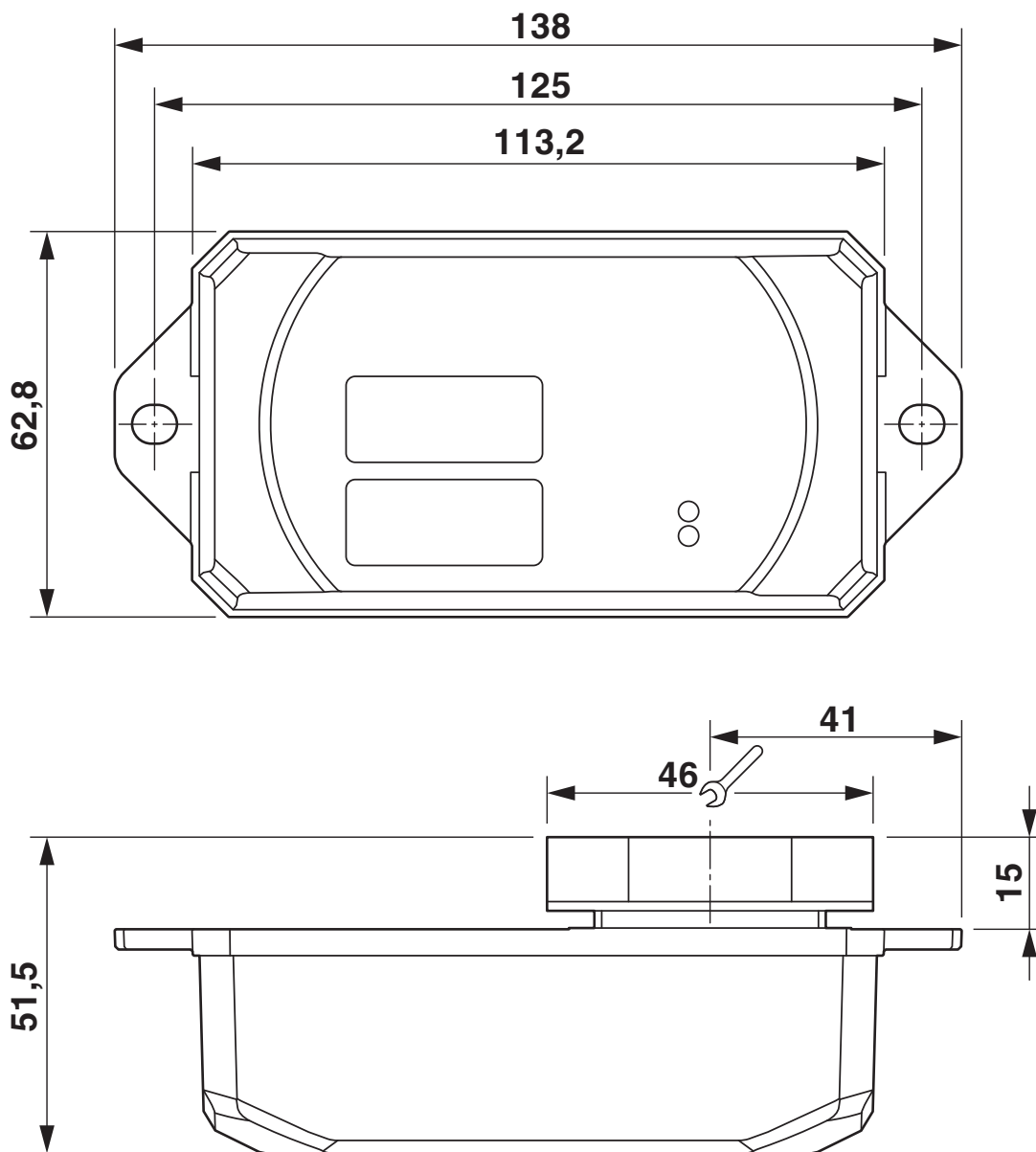
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702540>



**cULus Listed**

Approval ID: E238705



**cULus Listed**

Approval ID: E238705



**UL Listed**

Approval ID: E196811



**cUL Listed**

Approval ID: E196811



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 19170501 |
| ECLASS-12.0 | 19170501 |
| ECLASS-13.0 | 19170501 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000816 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43222600 |
|-------------|----------|

Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market                                                                                                                                                                             |
| 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.)     | Lead(CAS: 7439-92-1)                                                                                                                                                                                                              |
|                                         | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)                                                                                                                                              |
| SCIP                                    | da141222-2ba4-44eb-8d6f-9bf2fc136c5f                                                                                                                                                                                              |

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## Accessories

### FL M32 ADAPTER - Adapter

2702544

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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.

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

1421607

<https://www.phoenixcontact.com/us/products/1421607>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: green, Ethernet

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## FMC 1,5/ 3-STF-3,5 - PCB connector

1966101

<https://www.phoenixcontact.com/us/products/1966101>



PCB connector, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FMC 1,5/...-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON FMC 1,5 - MCDN 1,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

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## FL CAT5 PATCH 1,5 - Patch cable

2832221

<https://www.phoenixcontact.com/us/products/2832221>



Patch cable, CAT5, assembled, 1.5 m

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