

# FL TIMESERVER NTP - Wireless module



1107132

<https://www.phoenixcontact.com/us/products/1107132>

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GNSS receiver, NTP and NTS time server (Network Time Protocol, Network Time Security) for Ethernet networks, receives time, date, and location via GPS, Galileo, GLONASS, and BeiDou, supply via PoE (af) or 24 V DC, integrated antenna, IP68 housing

## Your advantages

- High availability thanks to a range of different satellite systems
- Automatic switching between GPS, Galileo, GLONASS, and BeiDou
- Robust IP68 housing with integrated antenna for easy installation outside the control cabinet
- Fast, inexpensive connection with just one Power over Ethernet cable
- Precise position determination via web-based management, SNMP, NMEA, or JSON streaming
- Extended temperature range of -40 °C ... +70 °C
- Highest level of cybersecurity with NTS (Network Time Security)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1107132       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN26          |
| Product key                          | DNC324        |
| GTIN                                 | 4063151006143 |
| Weight per piece (excluding packing) | 349.5 g       |
| Customs tariff number                | 85176200      |
| Country of origin                    | DE            |

## Technical data

### Product properties

|                |                                                                         |
|----------------|-------------------------------------------------------------------------|
| Product type   | Wireless element                                                        |
| Operating mode | NTP server (NTPv4) stratum 1                                            |
| MTBF           | 60 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)    |
|                | 168 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
|                | 316 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)    |

### Electrical properties

|                                                 |       |
|-------------------------------------------------|-------|
| Maximum power dissipation for nominal condition | 2.5 W |
|-------------------------------------------------|-------|

#### General

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Response time  | ≤ 2 ms (NTP, dependent on Ethernet network and available network capacity) |
|                | 1 s (Polling rate of NMEA position data via TCP)                           |
| Switch-on time | ≤ 100 s (Time until sat fix (cold restart, incl. device start))            |
|                | ~ 40 s (Device start)                                                      |

#### Real-time clock

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| Accuracy realtime clock | <15 seconds/month in offline mode (no GNSS reception or Internet connection, no temperature fluctuations)   |
|                         | <60 seconds/month in offline mode (no GNSS reception or Internet connection, with temperature fluctuations) |

#### 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           | 2                                                         |
| Cross section range AWG       | 24 ... 16 (Use copper wires rated 75° C (UL))             |
| Supply voltage                | 24 V DC (SELV)                                            |
| Supply voltage range          | 10 V DC ... 30 V DC (SELV)                                |
|                               | Power over Ethernet (PoE IEEE 802.3af or higher)          |
| Current consumption           | ≤ 104 mA (24 V)                                           |
|                               | max. 175 mA (UL, 10 V)                                    |
|                               | max. 60 mA (PoE)                                          |
| Power consumption             | ≤ 2.5 W                                                   |

## 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, flexible [AWG]                               | ... 16                    |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve  | 0.25 mm² ... 0.75 mm²     |
| Conductor cross-section flexible, with ferrule without plastic sleeve | 0.25 mm² ... 1.5 mm²      |
| Stripping length                                                      | 10 mm                     |

## Interfaces

### Functions

|               |                      |
|---------------|----------------------|
| Configuration | Web-based management |
|---------------|----------------------|

### 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 port)                                |
| Protocols supported           | SNTP                                         |
|                               | NTP (v1, v2, v3, v4, without authentication) |
|                               | NTS (Network Time Security for NTP)          |
|                               | NMEA 0183 (via TCP)                          |
|                               | HTTP                                         |
|                               | HTTPS                                        |
|                               | SNMP                                         |
|                               | SSH                                          |
|                               | DHCP                                         |
|                               | VLAN                                         |
|                               | Telnet                                       |

### Wireless

|                           |                                            |
|---------------------------|--------------------------------------------|
| Designation               | GNSS (GPS / Galileo / GLONASS / BeiDou)    |
| Antenna connection method | (Internal)                                 |
| Frequency                 | 1575.42 MHz (GPS, L1C/A)                   |
|                           | 1602 MHz +k * 562,5 kHz (GLONASS, L1OF)    |
|                           | 1575.42 MHz (Galileo, E1-B/C)              |
|                           | 1575.42 MHz (BeiDou, B1C)                  |
| Accuracy class            | CEP <sub>50</sub> = 5 m (Outdoor assembly) |

## Dimensions

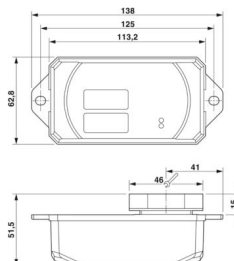
# FL TIMESERVER NTP - Wireless module



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Dimensional drawing



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

## Material specifications

|                       |                              |
|-----------------------|------------------------------|
| Color (Housing)       | black (RAL 9005)             |
| Material (Housing)    | Polycarbonate                |
| Material (Base plate) | Die-cast zinc, nickel-plated |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -40 °C ... 70 °C                                                                                      |
| Degree of protection                     | IP68 (Manufacturers declaration, not evaluated by UL)<br>UL/CSA: Enclosure Type Rating 1 (indoor use) |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C                                                                                      |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing)                                                                        |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                                                                         |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### UL, USA/Canada

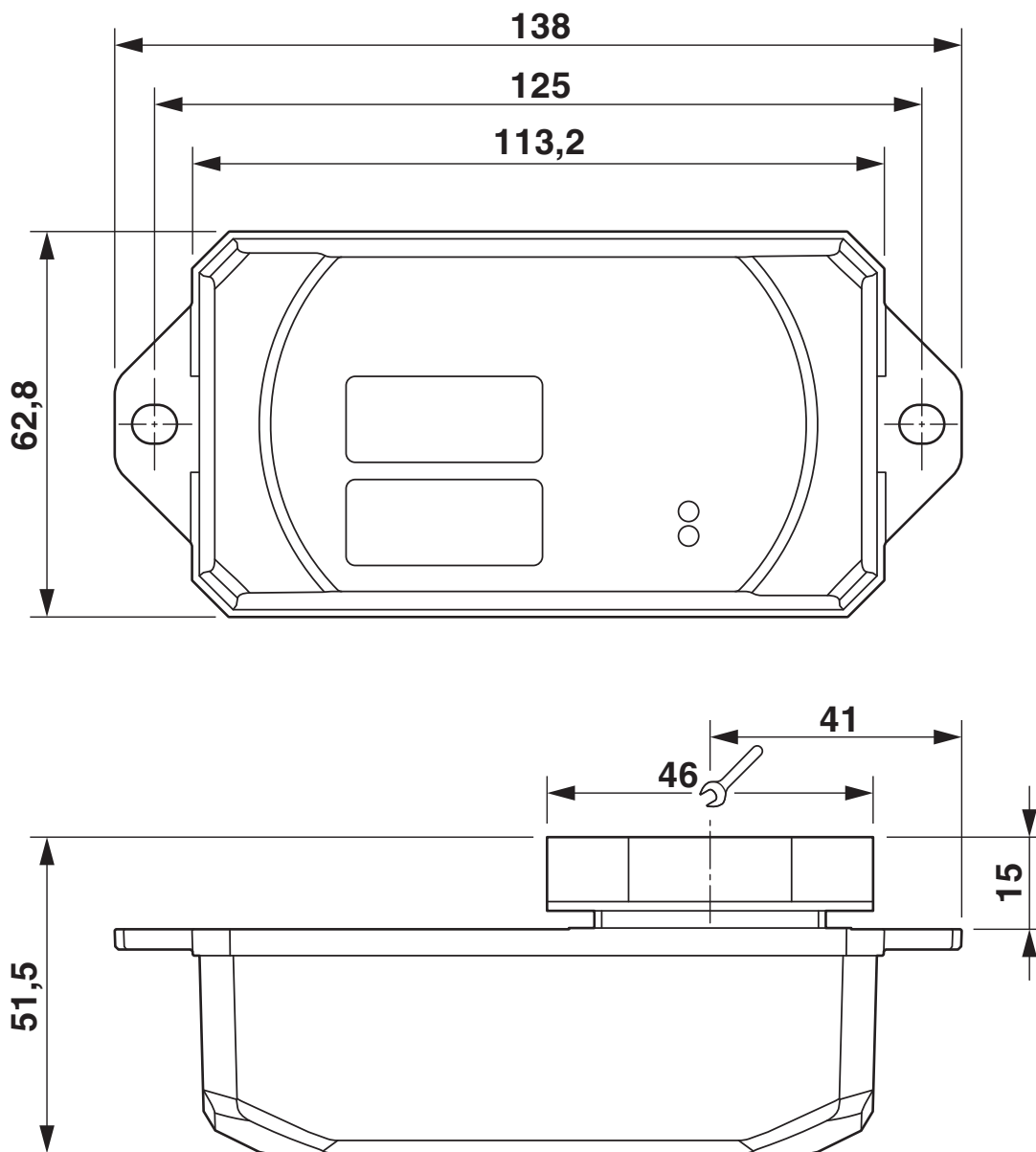
|                |                 |
|----------------|-----------------|
| Identification | UL 61010 Listed |
|----------------|-----------------|

## Mounting

|               |                                                                            |
|---------------|----------------------------------------------------------------------------|
| Mounting type | Single-hole mounting (outside of control cabinets or other metal housings) |
| Assembly note | Outside of control cabinets or other metal housings                        |

## Drawings

Dimensional drawing

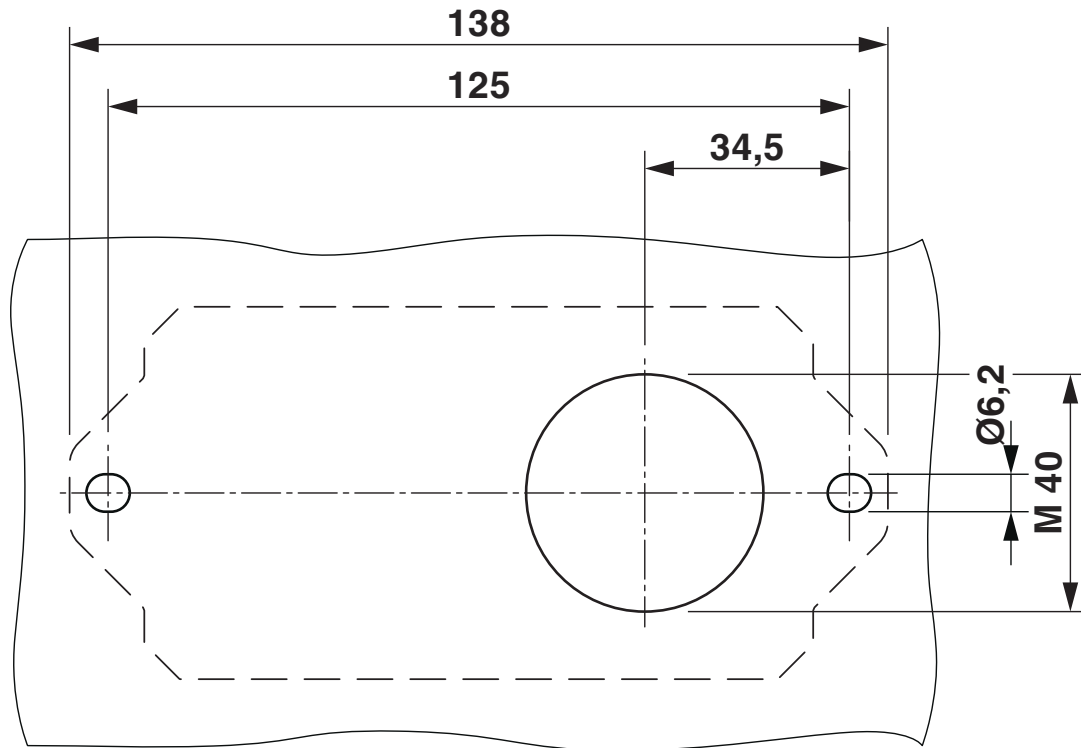


Dimensional drawing

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Dimensional drawing



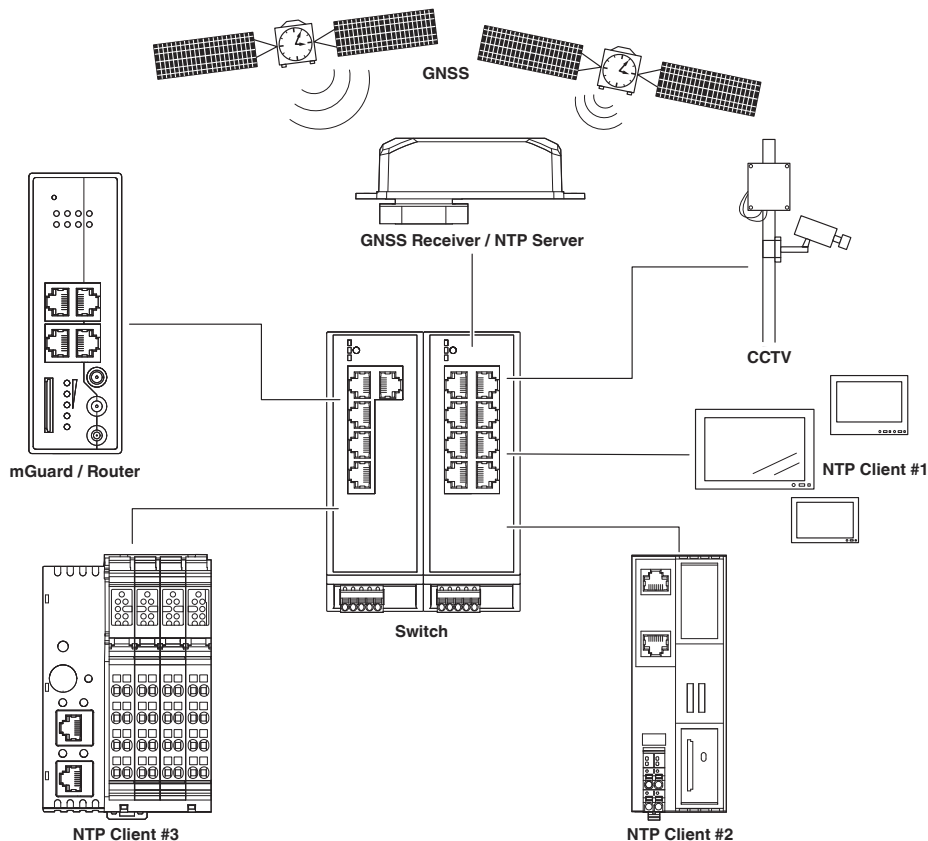
Drilling diagram

# FL TIMESERVER NTP - Wireless module

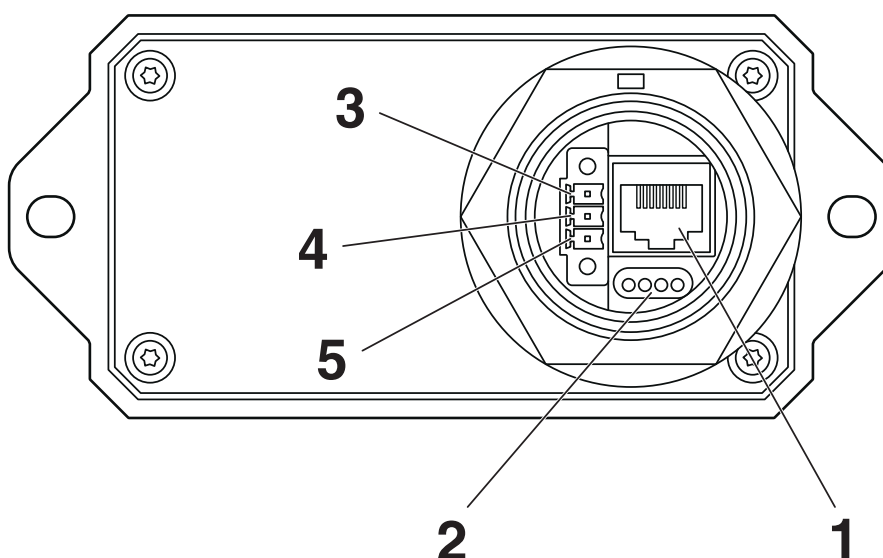
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Application drawing



Schematic diagram



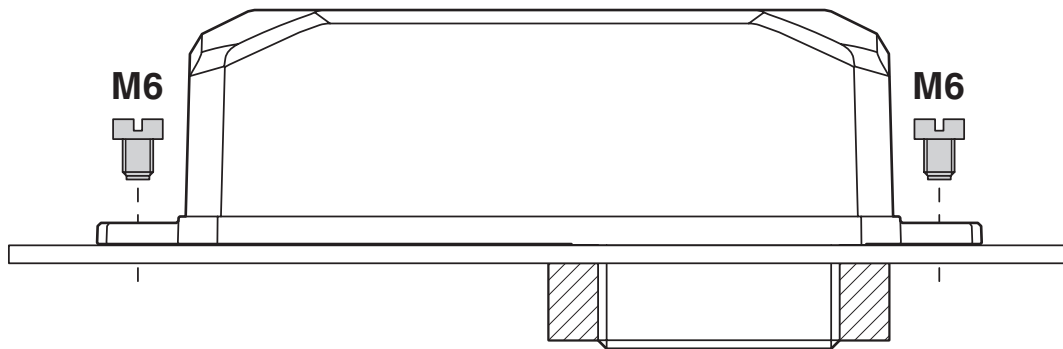
View from below

# FL TIMESERVER NTP - Wireless module

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Schematic diagram



Mounting on the control cabinet

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1107132>



**cULus Listed**

Approval ID: E238705

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Classifications

ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19179090 |
| ECLASS-15.0 | 19179090 |

ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000310 |
|----------|----------|

UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------|
| REACH candidate substance (CAS No.) | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
|-------------------------------------|--------------------------------------------------------------------------------------|

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