FL TIMESERVER NTP - Wireless module

1107132

https://www.phoenixcontact.com/in/products/1107132

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GNSS receiver and NTP (Network Time Protocol) for Ethernet networks, receives time, date, and location via GPS, GLONASS, or Galileo, web-based management, 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, and GLONASS
- 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

Commercial Data

Item number	1107132
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNC
Product Key	DNC324
GTIN	4063151006143
Weight per Piece (including packing)	349.8 g
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 mm²
	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

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)
	NMEA 0183 (via TCP)
	HTTP
	HTTPS
	SNMP
	SSH
	DHCP
	VLAN
	Telnet

Wireless

Designation	GNSS (GPS / Galileo / GLONASS)
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)
Accuracy class	CEP_{50}= 5 m (Outdoor assembly)

Dimensions