# PSI-MODEM/ETH - Modem

2313300

https://www.phoenixcontact.com/us/products/2313300

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Industrial Ethernet modem for assembly on EN DIN rails. For dialed operation in Europe, USA and Canada. Ethernet interface, electric 3-way isolation, supply voltage 24 V DC

## Your advantages

- Callback function
- Configurable, selective call acceptance
- Integrated surge protection to ensure high system availability
- Connection establishment with password protection
- High-quality electrical isolation

## Commercial data

| | |
|---|---|
| Item number | 2313300 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN24 |
| Product key | DNC412 |
| GTIN | 4046356308083 |
| Weight per piece (including packing) | 336.8 g |
| Weight per piece (excluding packing) | 290.4 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

# Technical data

## Notes

Utilization restriction

| | |
|---|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |

## Product properties

| | |
|---|---|
| Product type | Modem |

Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Electrical isolation | VCC // PSTN // Ethernet |
| Maximum power dissipation for nominal condition | 2.4 W |
| Mains type | Fixed-line network |
| Test voltage data interface/power supply | 1.5 kV (50 Hz, 1 min.) |
| Test voltage data interfaces | 1500 V |

Supply

| | |
|---|---|
| Supply voltage range | 10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Nominal supply voltage | 24 V DC ±5 % (as an alternative or redundant, via backplane bus contact and system current supply) |
| Typical current consumption | < 100 mA (24 V DC) |
| | < 70 mA (stand by) |

Function

| | |
|---|---|
| Management | Web-based management, SNMP or Factory Manager Software FL SWT |

## Connection data

Supply

| | |
|---|---|
| Tightening torque | 0.56 Nm ... 0.79 Nm |

## Interfaces

| | |
|---|---|
| Signal | Ethernet |
| Web server | yes |

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

| | |
|---|---|
| Serial transmission speed | 10/100 Mbps, auto negotiation |
| Connection method | RJ45 jack, shielded |
| No. of channels | 1 |
| Transmission length | 100 m (shielded twisted pair) |
| Protocols supported | TCP/IP, UDP, TFTP, HTTP, Modbus/TCP, PPP, PROFINET, |

| | |
|---|---|
| | EtherNet/IP™, CHAP |
| Auxiliary protocols | ARP, DHCP, BOOTP, SNMP, RIP, RARP, HTTP, TFTP, ICMP |
| Data flow control/protocols | TCP/IP, UDP, TFTP, HTTP, Modbus/TCP, PPP, PROFINET, EtherNet IP, CHAP |

Data: PSTN-Port (a/b-Line)

| | |
|---|---|
| Serial transmission speed | 300 Bd ... 56 kBd |
| Connection method | RJ12, 6-pos. |
| Dialing procedure | Multiple frequency/pulse dialing, configuration via software |
| Error correction | V.42 (LAP-M or MNP 2 to 4) |
| Data compression | V.42bis (throughput 4:1), MNP 5 (throughput 2:1) |
| Acoustic signaling | Integrated piezo (during the dialing process) |

## Dimensions

| | |
|---|---|
| Width | 45 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

## Material specifications

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|---|---|
| Material (Housing) | PA V0 |

## Mechanical tests

| | |
|---|---|
| Free fall in accordance with IEC 60068-2-32 | : 1 m |
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : 5g in each space direction |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : Operation: 15g, 11 ms period, half-sine shock pulse |
| | : Storage: 30g, 11 ms period, half-sine shock pulse |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | 0 °C ... 55 °C |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| | ≤ 2000 m (in acc. with UL) |

## Approvals

CE

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

UL, USA/Canada

| | |
|---|---|
| Identification | 508 Listed |
| | Class I, Zone 2, AEx nA IIC T6 |
| | Class I, Zone 2, Ex nA IIC T6 Gc X |

Corrosive gas test

| | |
|---|---|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise immunity | EN 61000-6-2:2005 |

Noise emission

| | |
|---|---|
| Standards/regulations | EN 55032 |

Electrostatic discharge

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

Electrostatic discharge

| | |
|---|---|
| Contact discharge | ± 6 kV (Test Level 3) |
| Discharge in air | ± 8 kV (Test Level 3) |
| Comments | Criterion B |

Electromagnetic HF field

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

Electromagnetic HF field

| | |
|---|---|
| Frequency range | Test Level 3 |
| Field intensity | 10 V/m |
| Comments | Criterion A |

Fast transients (burst)

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

Fast transients (burst)

| | |
|---|---|
| Input | ± 2 kV (Test Level 3) |
| Signal | ± 1 kV (Test Level 3) |
| Comments | Criterion B |

Surge current load (surge)

| | |
|---|---|
| Standards/regulations | EN 61000-4-5 |

Surge current load (surge)

| | |
|---|---|
| Input | ± 2 kV |
| Signal | ± 1 kV |
| Comments | Criterion B |

Conducted interference

| | |
|---|---|
| Standards/regulations | EN 61000-4-6 |

Conducted interference

| | |
|---|---|
| Comments | Criterion A |
| Voltage | 10 V |

Emitted interference

| | |
|---|---|
| Standards/regulations | EN 55032 |

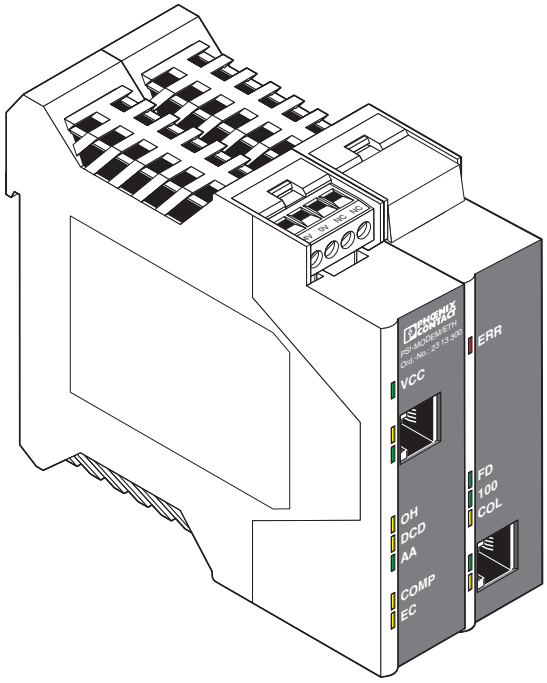
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|---|---|
| Comments | Class A, industrial applications |

## Mounting

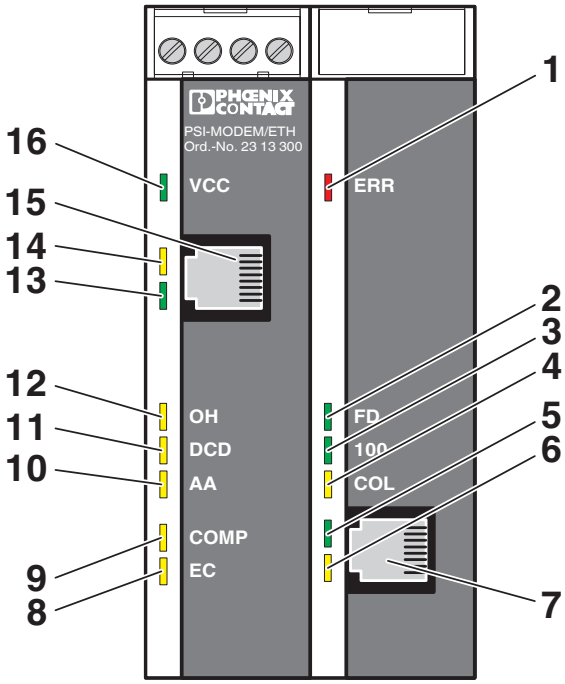
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|---|---|
| Mounting type | DIN rail mounting |

## Drawings

Schematic diagram

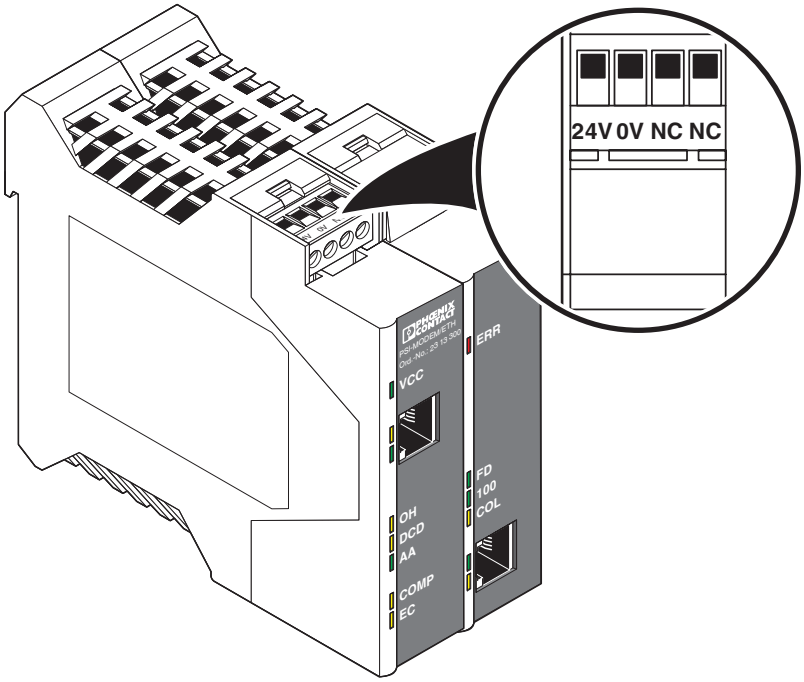



Schematic diagram




Front view

Schematic diagram




Connecting the supply voltage

## 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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com