

CLOUD CLIENT 2002T-WLAN - Router



1234360

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Industrial VPN gateway for mGuard Secure Cloud, IPsec communication via WLAN client 802.11a/b/g/n, 150 Mbps, 2.4 GHz + 5 GHz, 2-port switch, antenna connections: 2 RSMA WLAN, 4 DI, 2 DO

Your advantages

- Virtual dedicated line to connect networks via cellular network
- Configuration via web-based management or microSD card
- Two local Ethernet connections
- Switchable energy-saving mode
- Integrated logbook
- Extended temperature range of -40 °C ... +70 °C
- Four digital inputs
- Two digital outputs



Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1234360 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN25 |
| Product key | DNC422 |
| GTIN | 4063151338237 |
| Weight per piece (including packing) | 320.3 g |
| Weight per piece (excluding packing) | 320.3 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Notes

Note on application

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

Product properties

| | |
|--------------|---|
| Product type | Remote maintenance gateway |
| Application | Ethernet |
| MTTF | 384 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 180 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
| | 64 Years (SN 29500 standard, temperature 40°C, operating cycle 100%) |

Security functions

| | |
|---|--|
| Number of VPN tunnels | 1 |
| Authentication | X.509v3, PSK |
| Data integrity | IPsec: MD5, SHA-1, SHA-256, SHA-512, AESXCBC |
| Filtering | Interface and protocols only |
| Firewall rules | Stateful inspection firewall |
| Internet Protocol Security (IPsec) mode | ESP tunnel |
| Encryption methods | IPsec: 3DES, AES, Blowfish |

Electrical properties

| | |
|---|-----------------|
| Electrical isolation | VCC // Ethernet |
| Maximum power dissipation for nominal condition | 4.32 W |

Supply

| | |
|-----------------------------|--|
| Supply voltage range | 10 V DC ... 30 V DC (Via pluggable Push-in terminal block) |
| Typical current consumption | < 180 mA (24 V DC) |
| | < 500 mA (10 V DC) |
| | ≤ 3 mA (With activated energy-saving mode) |
| Max. current consumption | 1.5 A |

Function

| | |
|---------------------|----------------------|
| Management | Web-based management |
| | SNMPv1/v2/v3 |
| Data storage system | Micro SDHC card |

Input data

Digital

| | |
|--------------------------|---------------|
| Description of the input | Digital input |
| Number of inputs | 4 |

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| | |
|----------------------------|---------------------|
| Voltage input signal | 10 V DC ... 30 V DC |
| Switching level "0" signal | < 8 V DC |
| Switching level "1" signal | 10 V DC ... 30 V DC |

Output data

Signal

| | |
|-----------------------|--|
| Output name | Digital output |
| Number of outputs | 2 |
| Voltage output signal | 10 V DC ... 30 V DC (depending on the operating voltage) |
| Current output signal | ≤ 50 mA (Not short-circuit proof) |

Connection data

Supply

| | |
|---|---|
| Connection method | Push-in spring connection |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 0.75 mm ² |
| Single conductor/terminal point, rigid | 0.14 mm ² ... 1.5 mm ² |
| Single-wire/terminal point, flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible [AWG] | 26 ... 16 |
| Stripping length | 9.00 mm |

Interfaces

| | |
|------------|-----|
| 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 | 2 |
| Transmission length | 100 m (shielded twisted pair) |
| Protocols supported | TCP/IP, UDP/IP, HTTP(S), (S)FTP, TFTP, SCEP, RADIUS, IPsec Network Discovery: LLDP, CDP, FDP, SONMP, EDP, IRDP |
| Auxiliary protocols | ARP, DHCP, DNS, DynDNS, PING (ICMP), SMTP(S), NTP, SSL/TLS, STARTTLS, SMS |

Wireless

| | |
|-----------------------|---|
| Interface description | WLAN in accordance with IEEE 802.11 a/b/g/n |
| Operating mode | Access point |
| | Client |
| | Dual mode |
| | Mesh |
| Frequency | 5 GHz |
| | 2.4 GHz |
| | 11 Mbps (2.4 GHz) |

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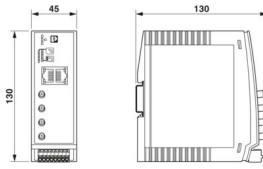


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| | |
|---------------------------|-------------------------------------|
| Data rate | 54 Mbps (2.4 GHz) |
| | 144 Mbps (2.4 GHz) |
| | 54 Mbps (5 GHz) |
| | 150 Mbps (5 GHz) |
| Antenna connection method | RSMA (female) |
| Security | WPA, WPA2 (TKIP, CCMP, PSK, RADIUS) |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 45 mm |
| Height | 130 mm |
| Depth | 130 mm |

Material specifications

| | |
|----------------------------|-----------------------|
| Color (Upper housing part) | light gray (RAL 7035) |
| Material (Housing) | Polycarbonate |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

Approvals

CE

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

Wireless approval USA, FCC

| | |
|-------------|------------------------|
| Certificate | Z64-WL18DBMOD |
| Note | FCC directive, part 15 |

EMC data

| | |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with RED Directive 2014/53/EU |
| Noise immunity | EN 61000-6-2 |

Electrostatic discharge

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| | |
|--|--|
| 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 | 80 MHz ... 3 GHz (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 | ± 2 kV (Ethernet) |
| Comments | Criterion B |
| Surge current load (surge) | |
| Standards/regulations | EN 61000-4-5 |
| Surge current load (surge) | |
| Input | ± 0.5 kV (symmetrical) ± 1 kV (asymmetrical) |
| Signal | ± 1 kV (Data line, asymmetrical) |
| Comments | Criterion B |
| Conducted interference | |
| Standards/regulations | EN 61000-4-6 |
| Conducted interference | |
| Frequency range | 0.15 MHz ... 80 MHz |
| Comments | Criterion A |
| Voltage | 10 V |
| Emitted interference | |
| Radio interference voltage in acc. with EN 55011 | Class B, area of application: Industry and residential |
| Emitted radio interference in acc. with EN 55011 | Class B, area of application: Industry and residential |
| Criteria | |
| Criterion A | Normal operating behavior within the specified limits. |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself. |

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Mounting

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

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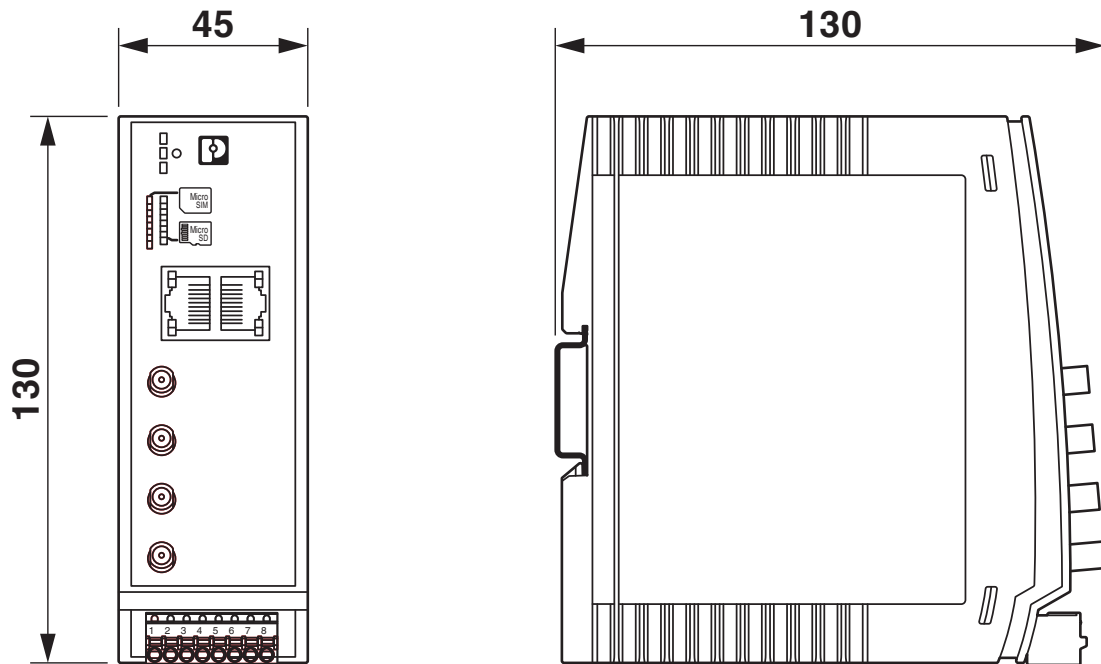


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Drawings

Dimensional drawing

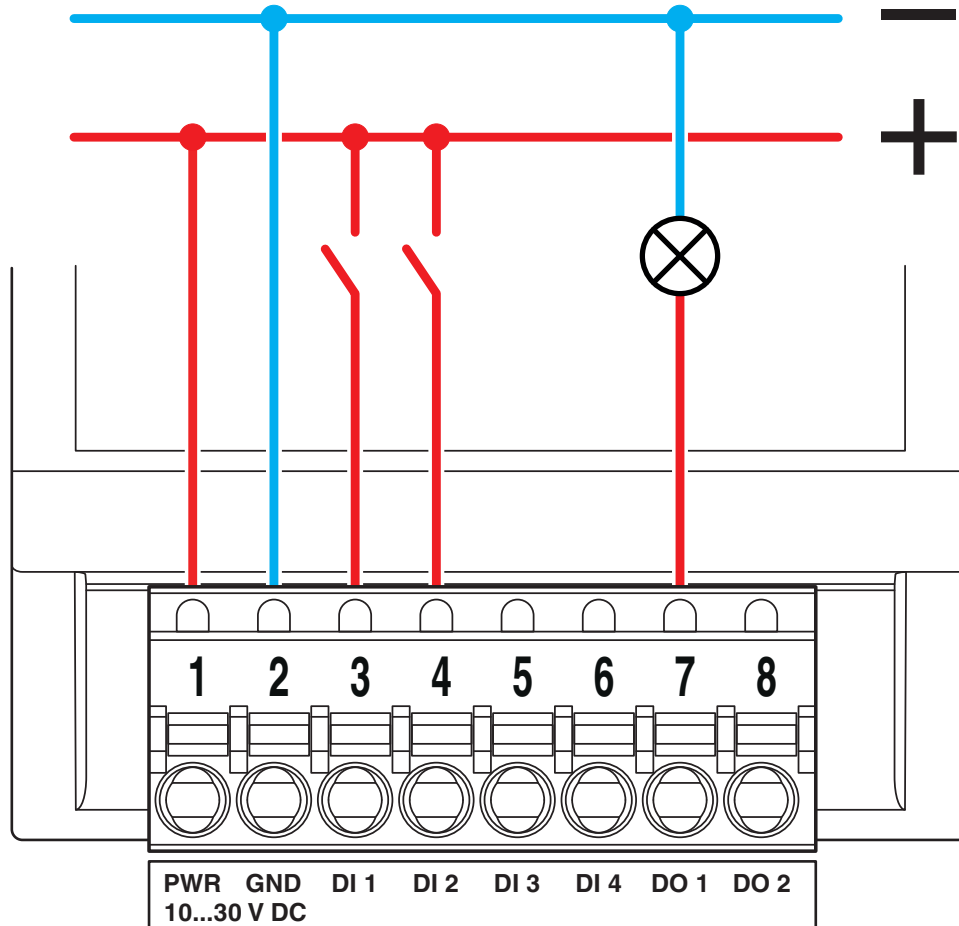


Dimensions (product version with four antenna connections)

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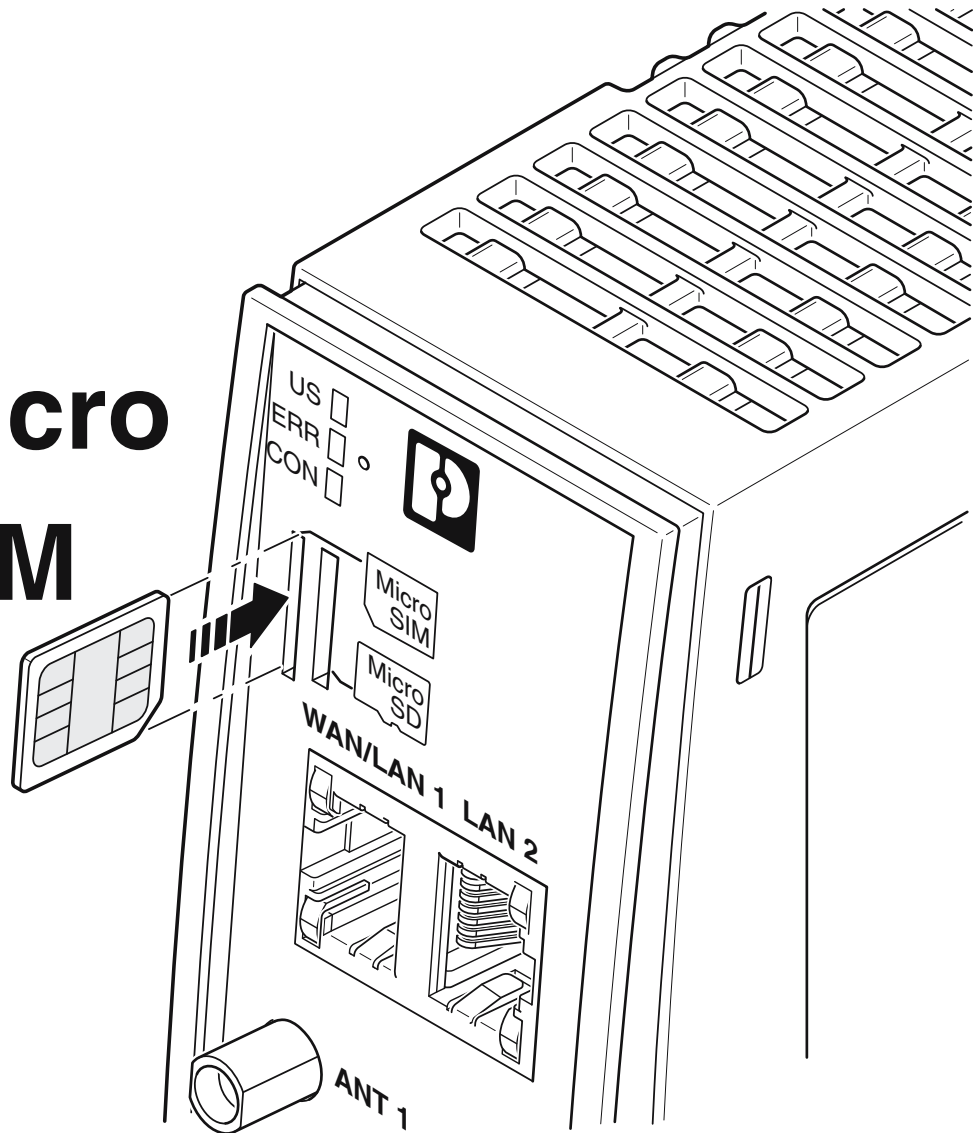
Connection diagram



Switching inputs and outputs

Schematic diagram

Micro SIM



Insert SIM card

Schematic diagram

Micro SD



Insert SD card

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Classifications

ECLASS

ECLASS-13.0

19170502

ETIM

ETIM 9.0

EC001478

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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