

Security Appliance - TC MGUARD RS4000 4G VZW VPN - 1010461

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Security appliance, version for Verizon Wireless (US), WAN and 4G mobile network interface, SD card slot, 10 VPN tunnels, intelligent firewall with full scope of functions, router with NAT/1:1 NAT, optional CIFS Integrity Monitoring, 4 port Managed Switch

Product Description

The TC MGUARD... security appliances are industrial mobile network routers with mGuard technology. As such, the routers offer a remote maintenance infrastructure for the secure connection of machines and systems via the Internet. A high-speed mobile network interface and a 4-port switch are integrated into a compact metal housing. Secure remote communication on a global scale takes place via 4G LTE as well as UMTS and CDMA networks. With the help of an SD card as a configuration memory, the devices can be quickly and easily started up or replaced. The devices have a buffered realtime clock and Trusted Platform Module (TPM) for secure key generation and management.

Your advantages

- ✓ Integrated 4-port switch
- ✓ Maximum security with IPsec protocol on Layer 3
- ✓ Web-based management, SNMP
- ✓ Replaceable configuration memory
- ✓ RS-232 interface with COM server function for integrating serial devices
- ✓ Flexible routing
- ✓ Up to 10 parallel VPN tunnels (up to 250 possible with additional license as an option)
- ✓ Supports current certificates such as x509.v3
- ✓ Stateful inspection firewall for dynamic filtering
- ✓ Extended temperature range



Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4055626484143 |

Technical data

Note

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

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Technical data

Dimensions

| | |
|--------|--------|
| Width | 45 mm |
| Height | 130 mm |
| Depth | 114 mm |

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| Degree of protection | IP20 (Manufacturer's declaration) |

General

| | |
|--|---|
| Electrical isolation | VCC // PE |
| Test voltage data interface/data interface | 1 kV (50 Hz, 1 min., manufacturer's declaration) |
| Test voltage data interface/power supply | 1 kV (50 Hz, 1 min., manufacturer's declaration) |
| Electromagnetic compatibility | Conformance with RED Directive 2014/53/EU |
| Net weight | 630.1 g |
| Housing material | Metal |
| Color | silver |
| MTTF | 532 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 250 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
| | 104 Years (SN 29500 standard, temperature 40°C, operating cycle 100%) |
| Degree of pollution | 2 |
| Wireless licences | USA |

Power supply

| | |
|---|---|
| Supply voltage range | 11 V DC ... 36 V DC (via pluggable COMBICON screw terminal block) |
| Max. current consumption | 1.8 A (at 11 V DC (incl. 3 x 125 mA for the outputs)) |
| Typical current consumption | < 320 mA (24 V DC) |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross section flexible max. | 2.50 mm ² |
| Conductor cross section flexible min. | 0.20 mm ² |
| Conductor cross section solid max. | 2.50 mm ² |
| Conductor cross section solid min. | 0.20 mm ² |
| Conductor cross section AWG max. | 14 |
| Conductor cross section AWG min. | 24 |
| Stripping length | 7 mm |

Interfaces

| | |
|-------------|---|
| Interface 1 | Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3 |
|-------------|---|

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Technical data

Interfaces

| | |
|-----------------------------|--|
| Interface | Ethernet |
| No. of ports | 6 |
| Connection method | RJ45 |
| Transmission length | 100 m (shielded twisted pair) |
| Protocols supported | TCP/IP, UDP/IP, FTP, HTTP |
| Auxiliary protocols | ARP, DHCP, PING (ICMP), SNMP V1, SMTP |
| Basic functions | Router with intelligent firewall and VPN for 10 tunnels (up to 250 supported with optional additional license), CIFS Integrity Monitoring (as an option), metal housing, slot for SD memory card |
| Interface 2 | V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1 |
| Interface | RS-232 |
| Connection method | D-SUB 9 plug |
| File format/coding | UART/NRZ: 8 Data, 1/2 Stop, None/Even/Odd Parity |
| Transmission length | 15 m |
| Data flow control/protocols | Software handshake, Xon/Xoff or hardware handshake RTS/CTS |
| Serial transmission speed | 9.6; 19.2; 38.4; 57.6; 115.2 kbps |

Wireless interface

| | |
|-----------------------|-----------------------------------|
| Interface description | LTE (FDD) |
| Frequency range | 700 MHz (LTE B13) |
| | 1700 MHz (LTE B4) |
| Data rate | ≤ 150 Mbps (LTE (DL)) |
| | ≤ 50 Mbps (LTE (UL)) |
| Antenna | 50 Ω impedance SMA antenna socket |
| SIM interface 1 | 1.8 volt, 3 volt |
| LTE | CAT4 |
| Country support | USA |

Function

| | |
|----------------------|--|
| Web-based management | yes |
| Management | Web-based management, SNMP |
| Security functions | Supported Supported Supported DES, 3DES, AES-128, -192, -256 ESP tunnel / ESP transport Supported Supported X.509v3 certificates with RSA or PSK MD5, SHA-1 Quick mode, Main mode, PFS RFC 3706 MAC and IP addresses, ports, protocols IP spoofing, DoS and Syn Flood Protection Standard routing, NAT, 1:1-NAT, port forwarding |

Digital outputs

| | |
|-----------------------|--|
| Output name | Digital output, resistive load |
| Number of outputs | 3 |
| Voltage output signal | 10 V DC ... 30 V DC (depending on the operating voltage) |
| Current output signal | ≤ 125 mA (Short-circuit-proof) |

Digital inputs

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Technical data

Digital inputs

| | |
|--------------------------|---------------------|
| Description of the input | Digital input |
| Number of inputs | 3 |
| Voltage input signal | 10 V DC ... 30 V DC |
| Current input signal | 5 mA |

Conformance/approvals

| | |
|----------------|--|
| Designation | UL, USA/Canada |
| Identification | Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc |
| | Class I, Div. 2, Groups A, B, C, D T4 |
| Designation | Corrosive gas test |
| Identification | ISA-S71.04-1985 G3 Harsh Group A |

Standards and Regulations

| | |
|---|--|
| Electromagnetic compatibility | Conformance with RED Directive 2014/53/EU |
| Type of test | Free fall in acc. with IEC 60068-2-32 |
| Test result | 1 m |
| Type of test | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| Test result | 5g, 10...150 Hz, 2.5 h, in XYZ direction |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | Operation: 15g, 11 ms period, half-sine shock pulse |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | Storage: 30g, 11 ms period, half-sine shock pulse |
| Free from substances that could impair the application of coating | according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard |
| Standards/regulations | EN 61000-4-2 |
| Contact discharge | ± 6 kV (Test Level 3) |
| Standards/regulations | EN 61000-4-3 |
| Frequency range | 80 MHz ... 3 GHz (Test Level 3) |
| Standards/regulations | EN 61000-4-4 |
| Comments | Criterion B |
| Standards/regulations | EN 61000-4-5 |
| Signal | ± 1 kV (Data line, asymmetrical) |
| Standards/regulations | EN 61000-6-4 |
| | EN 61000-4-6 |
| Frequency range | 0.15 MHz ... 80 MHz |

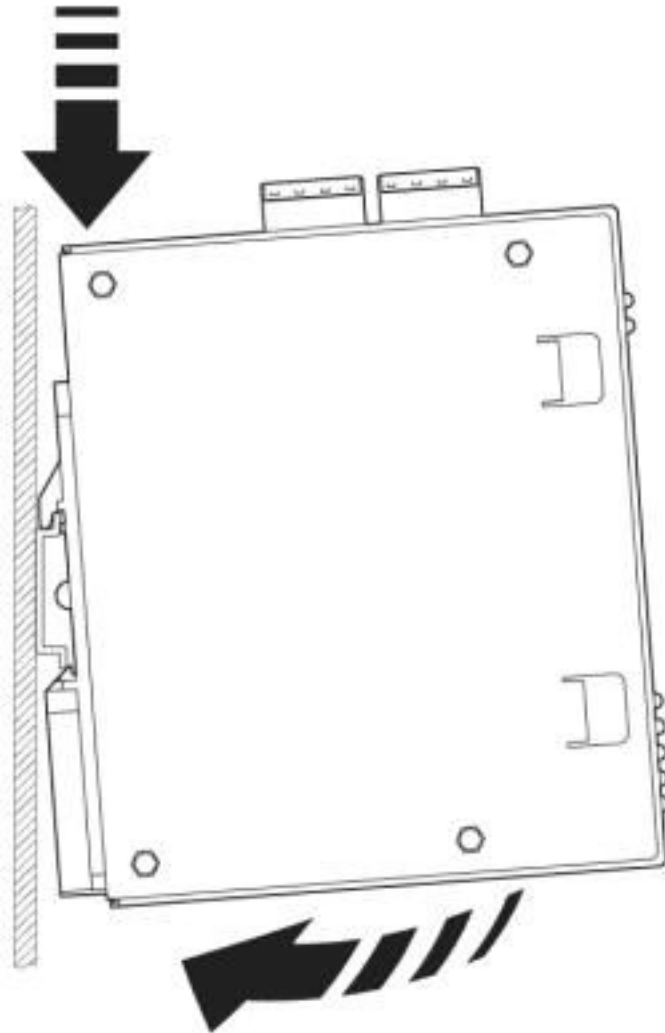
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

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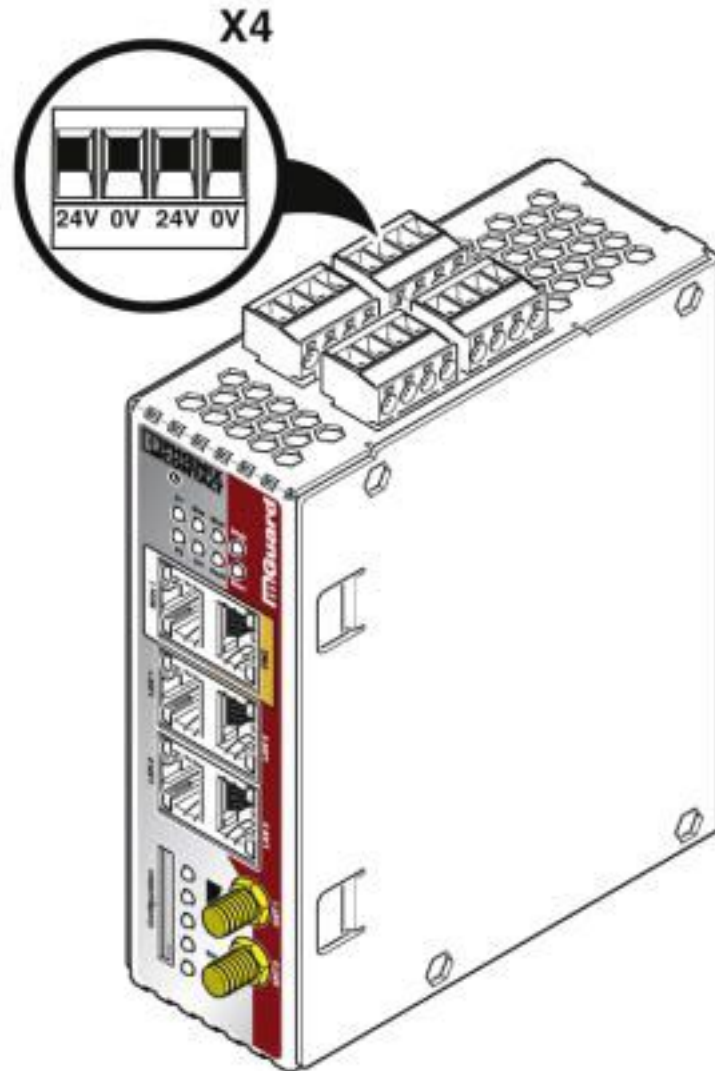
Schematic diagram



Mounting

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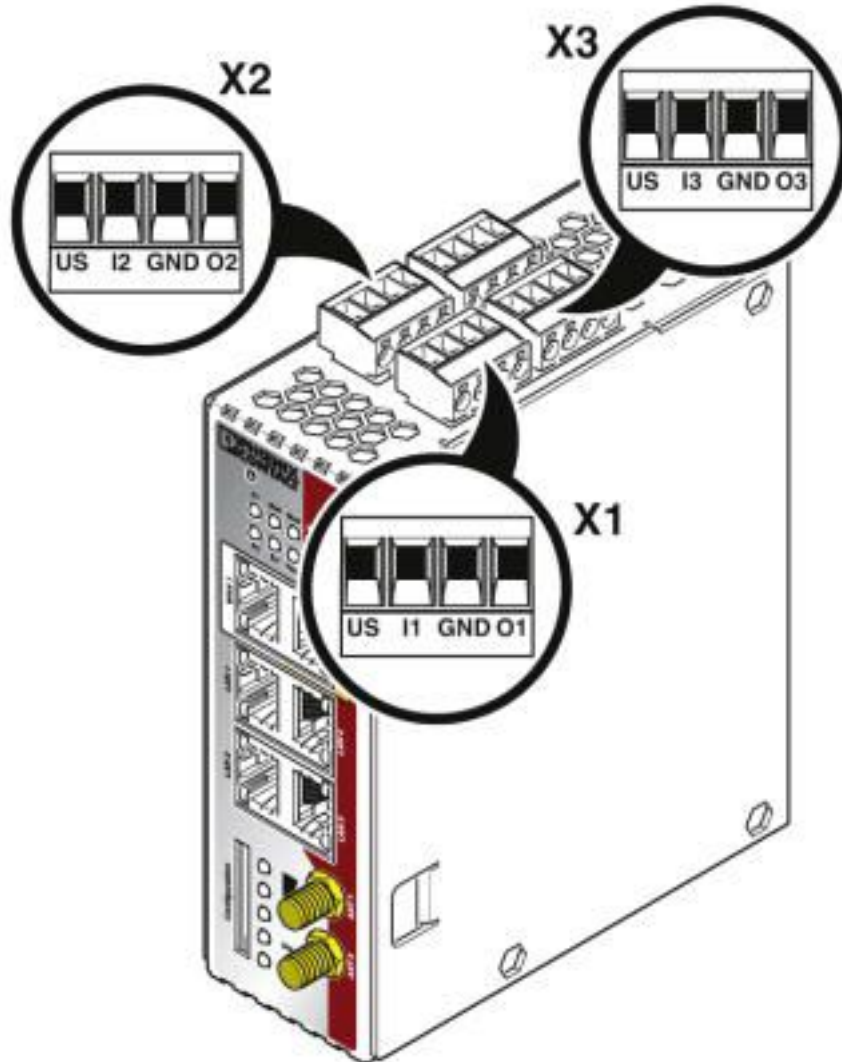
Schematic diagram



Connecting the supply voltage

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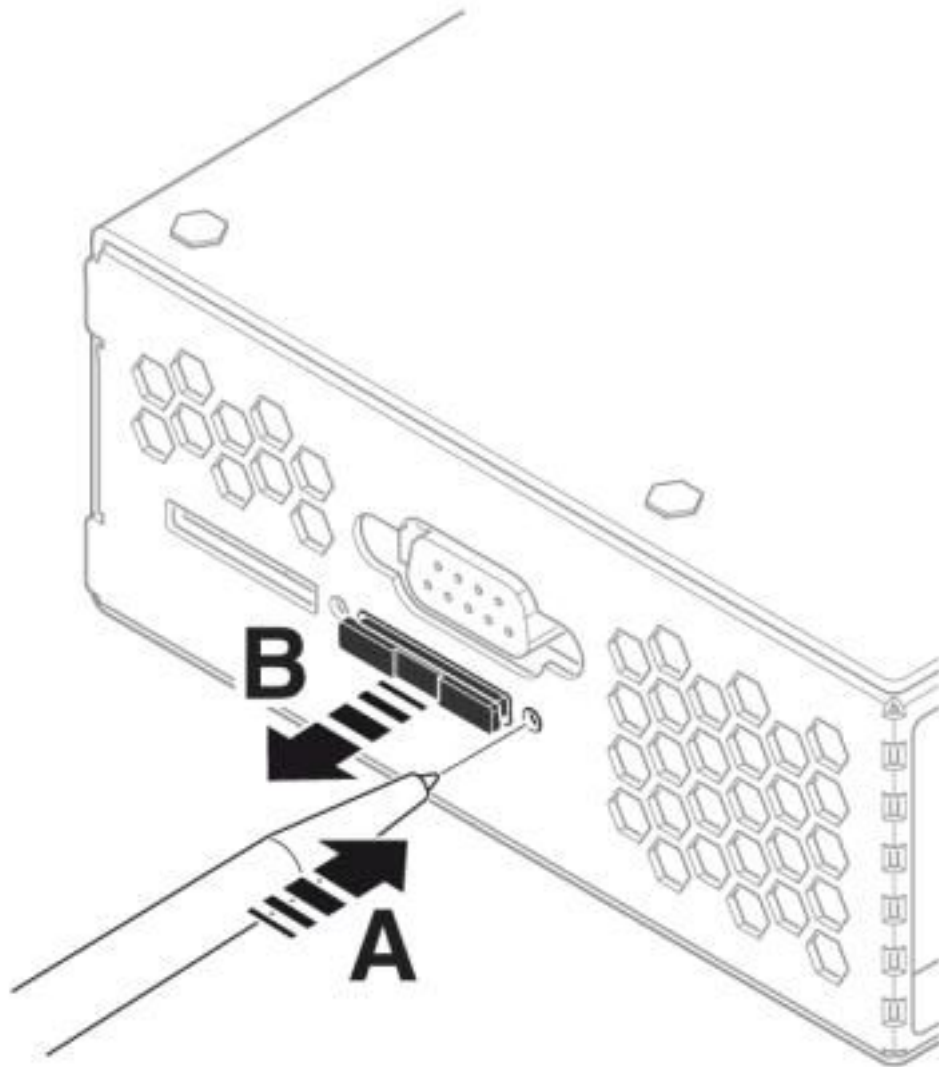
Schematic diagram



Service and signal contacts

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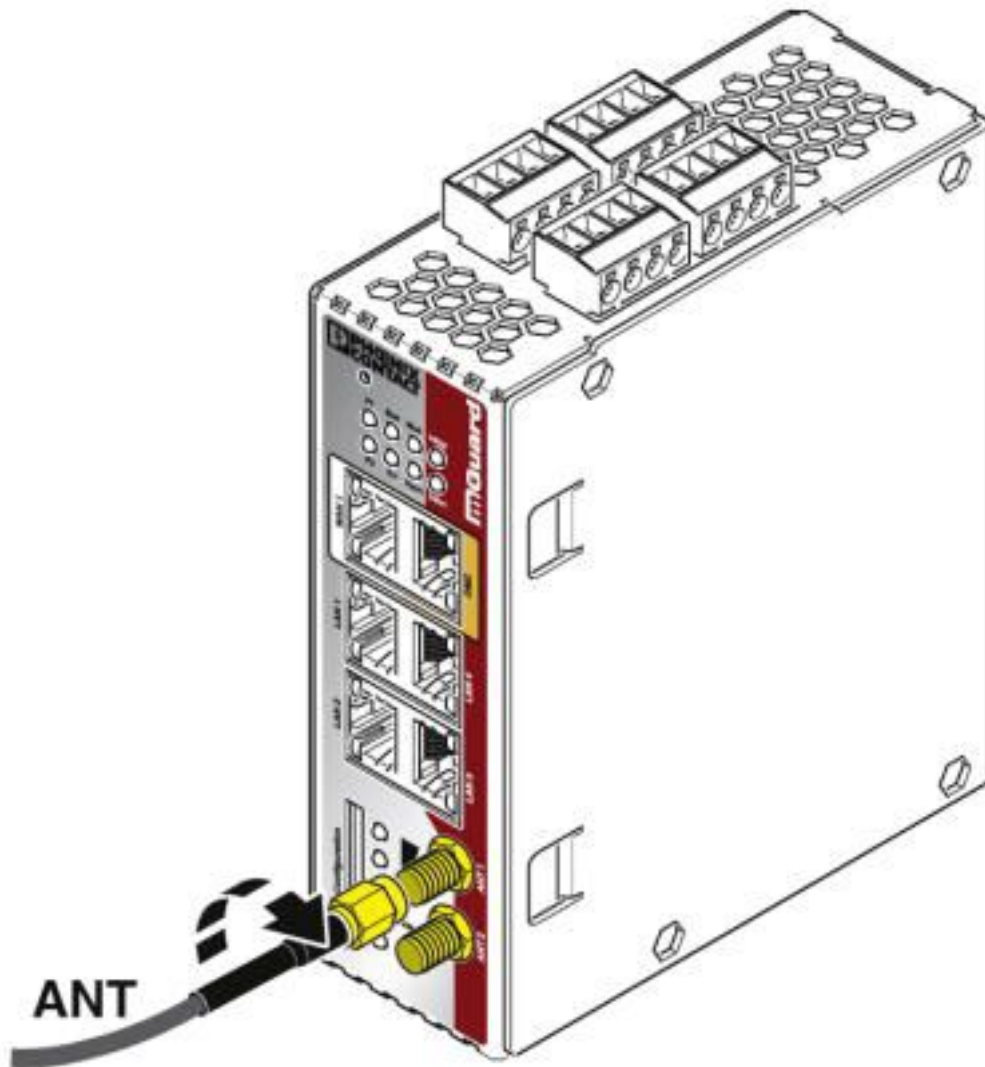
Schematic diagram



Remove SIM card holder

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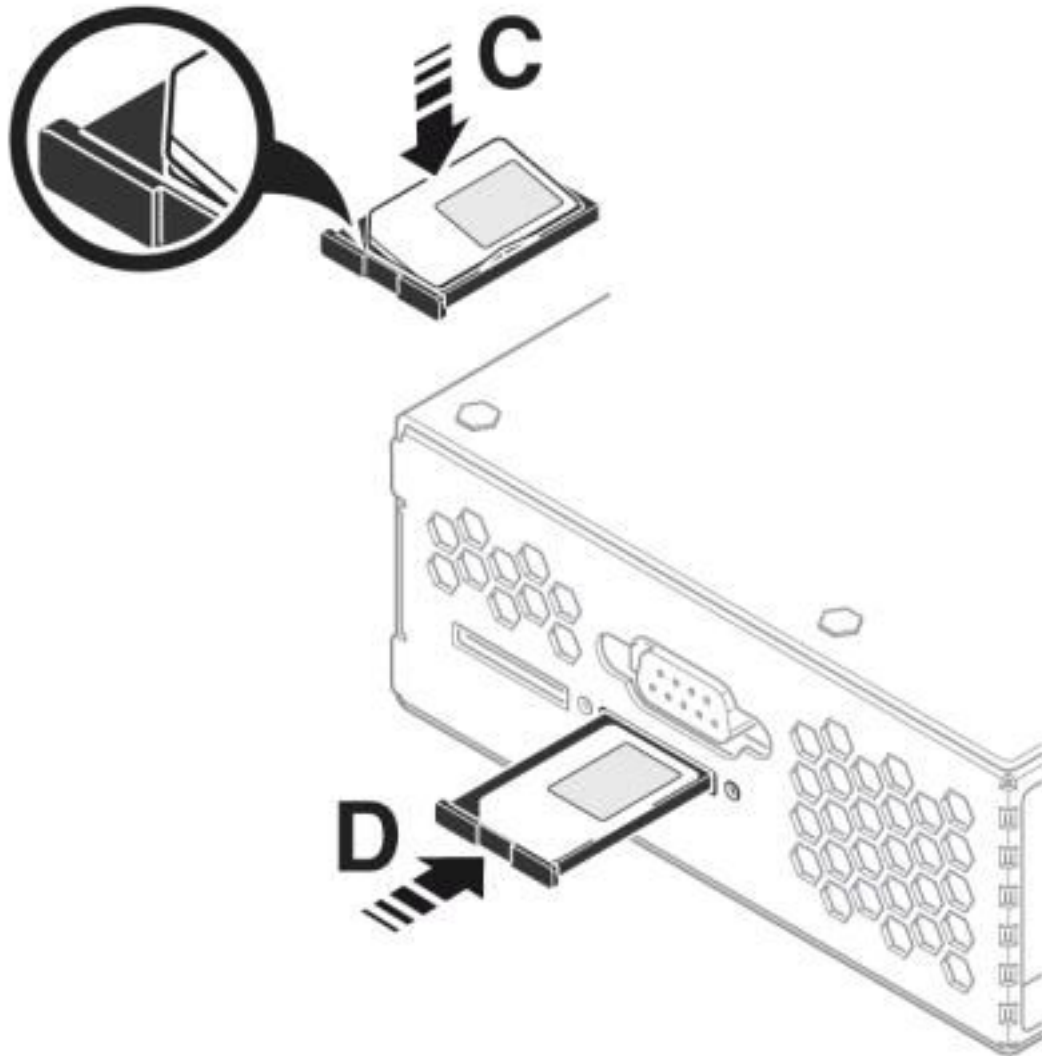
Schematic diagram



Connect the antenna

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Schematic diagram



Insert the SIM card

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 19170406 |
| eCl@ss 5.0 | 19030100 |
| eCl@ss 5.1 | 19030100 |
| eCl@ss 6.0 | 19170100 |
| eCl@ss 7.0 | 19170103 |
| eCl@ss 8.0 | 19170103 |
| eCl@ss 9.0 | 19170103 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001478 |
| ETIM 6.0 | EC001478 |
| ETIM 7.0 | EC001478 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|--|---|---------------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|------------|--|---|---------------|

| | | | |
|--------------|--|--|--|
| cULus Listed | | | |
|--------------|--|--|--|

Accessories

Accessories

Antenna

Antenna - TC ANT MOBILE WALL 0,5M - 2702274



Multiband cellular antenna for wall mounting, 0.5 m antenna cable, with SMA circular connector, suitable for LTE/4G

Coaxial cable

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Accessories

Antenna cable - PSI-CAB-GSM/UMTS- 5M - 2900980

Cellular antenna cable, 5 m in length, SMA (male) -> SMA (female), 50 ohm impedance



Antenna cable - PSI-CAB-GSM/UMTS-10M - 2900981

Cellular antenna cable, 10 m in length, SMA (male) -> SMA (female), 50 ohm impedance



Data plug

Assembly tool - FL CRIMPTOOL - 2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site



License

License - FL MGuard LIC VPN-250 - 2700193



License for up to 250 additional VPN online connections

License - FL MGuard LIC VPN-10 - 2700194



License for up to 10 additional VPN online connections

Media converter

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Accessories

FO converters - FL MC EF 1300 MM SC - 2902853



FO converter with SC duplex fiber optic connection (1300 nm), for converting 10/100Base-T(X) to multi-mode fiberglass (50/125 µm). Auto negotiation and auto MDI(X) function. Comprehensive link diagnostics. DIN-rail mountable, 18 ... 30 V DC supply.

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10 m

Plug

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Accessories

RJ45 connector - FL PLUG RJ45 GR/2 - 2744856



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

RJ45 connector - FL PLUG RJ45 GN/2 - 2744571



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.

Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

Remote control software

License - MGuard SECURE VPN CLIENT LIC - 2702579



License for mGuard Secure VPN Client v11.x

Surge protection for transceiver systems

Surge protection device - CSMA-LAMBDA/4-2.0-BS-SET - 2800491



Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces. Connection: Male/female SMA connectors.

Wireless element

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Accessories

Wireless module - FL TIMESERVER NTP - 1107132



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

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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