# Router - TC MGUARD RS4000 3G VPN - 2903440

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Security device, WAN, and mobile phone 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. 2 SIM card slots. GPS receiver.

## Product Features

- Maximum security
- Maximum performance
- Central management tool

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 1000.0 g |
| Custom tariff number | 85176200 |
| Country of origin | Germany |

## Technical data

### Note

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

### 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) |

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## Technical data

### Ambient conditions

| | |
|---|---|
| Altitude | 5000 m (For restrictions see manufacturer's declaration) |
| Degree of protection | IP20 |

### General

| | |
|---|---|
| Electrical isolation | VCC // PE |
| Test voltage data interface/data interface | 1 kV (50 Hz, 1 min.) |
| Test voltage data interface/power supply | 1 kV (50 Hz, 1 min.) |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Net weight | 950 g |
| Housing material | Metal |
| Color | silver |
| MTTF | 567 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 269 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| | 114 Years (Telcordia standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |
| Pollution degree | 2 |
| Conformance | CE-compliant |
| UL, USA | Class I, Zone 2, AEx nA IIC T4 |
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D |
| UL, Canada | Class I, Zone 2, Ex nA IIC T4 Gc X |

### Power supply

| | |
|---|---|
| Supply voltage range | 11 V DC ... 36 V DC (via pluggable COMBICON screw terminal block) |
| Max. current consumption | < 800 mA (at 11 V DC (incl. 3 x 50 mA for the outputs)) |
| Typical current consumption | < 200 mA (24 V DC) |
| | < 90 mA (stand by) |
| Conductor cross section solid max. | 2.50 mm² |
| Conductor cross section solid min. | 0.20 mm² |
| Max. AWG conductor cross section, flexible | 14 |
| Min. AWG conductor cross section, flexible | 24 |

### Serial interface

| | |
|---|---|
| Interface 1 | Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u |
| Interface | Ethernet |
| 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 |

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## Technical data

### Serial interface

| | |
|---|---|
| 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: 7/8 Bit Data, 1/2 Bit Stopp, 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 |

### Radio interface

| | |
|---|---|
| Interface description | GSM / GPRS / EDGE / UMTS / CDMA2000 |
| Frequency | 850 MHz (2 W (EGSM)) |
| | 900 MHz (2 W (EGSM)) |
| | 1800 MHz (1 W (EGSM)) |
| | 1900 MHz (1 W (EGSM)) |
| | 800 MHz (0.25 W (UMTS)) |
| | 850 MHz (0.25 W (UMTS)) |
| | 900 MHz (0.25 W (UMTS)) |
| | 1900 MHz (0.25 W (UMTS)) |
| | 2100 MHz (0.25 W (UMTS)) |
| | 800 MHz (CDMA2000 EV-DO) |
| | 1900 MHz (CDMA2000 EV-DO) |
| Data rate | ≤ 14.4 Mbps (HSDPA) |
| | ≤ 5.7 Mbps (HSUPA) |
| | ≤ 3.1 Mbps (DL CDMA2000) |
| | ≤ 1.8 Mbps (UL CDMA2000) |
| Antenna | 50 Ω impedance SMA antenna socket |
| SIM interface 1 | 1.8 volt, 3 volt |
| SIM interface 2 | 1.8 volt, 3 volt |
| GPRS | Class 12, Class B |
| | CS1 ... CS4 |
| EDGE | Multislot Class 12 |
| UMTS | HSPA 3GPP R6 |
| Network function | 4 time slots for receiving data, 4 time slots for transmitting data. The PIN is saved in the modem. After a voltage interruption, there is automatic redialing into the network. Integrated TCP/IP stack, firewall and VPN support, independent connection establishment. |

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## Technical data

### Radio interface

| | |
|---|---|
| Network check | LED bar graph to display receive quality |
| Protocols supported | GPS (Global Positioning System), GLONASS |

### Function

| | |
|---|---|
| Management | Web-based management, SNMP |

### Digital outputs

| | |
|---|---|
| Output name | Digital output |
| Number of outputs | 3 |
| Voltage output signal | 10 V DC ... 30 V DC (depending on the operating voltage) |
| Current output signal | ≤ 250 mA (Short-circuit-proof) |

### 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 |

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27230207 |
| eCl@ss 4.1 | 27230207 |
| eCl@ss 5.0 | 27230207 |
| eCl@ss 5.1 | 27230207 |
| eCl@ss 6.0 | 27230207 |
| eCl@ss 7.0 | 27230207 |
| eCl@ss 8.0 | 19170103 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC000310 |
| ETIM 4.0 | EC000740 |
| ETIM 5.0 | EC001478 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11 | 39121008 |
| UNSPSC 12.01 | 39121008 |

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## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 13.2 | 39121008 |

## Approvals

### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

### Approval details

UL Listed

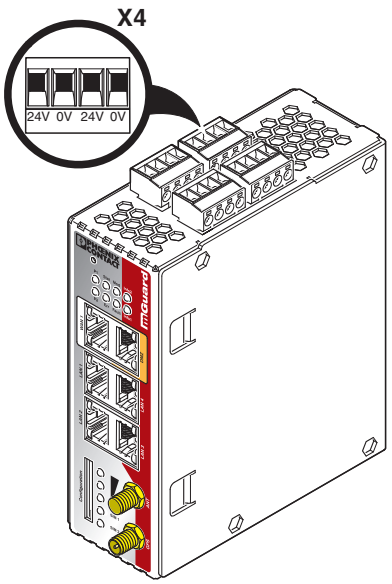
cUL Listed

cULus Listed

## Drawings

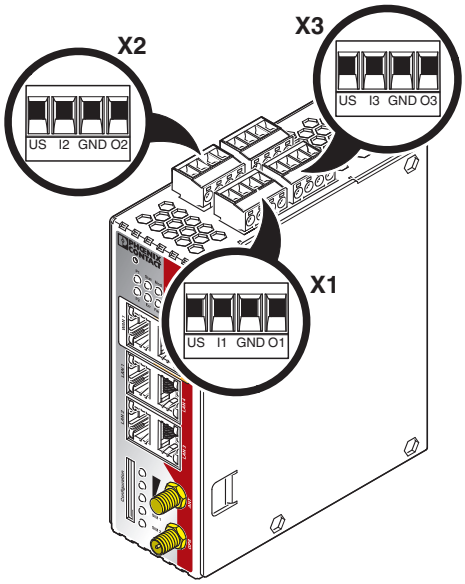
# Router - TC MGUARD RS4000 3G VPN - 2903440

Schematic diagram



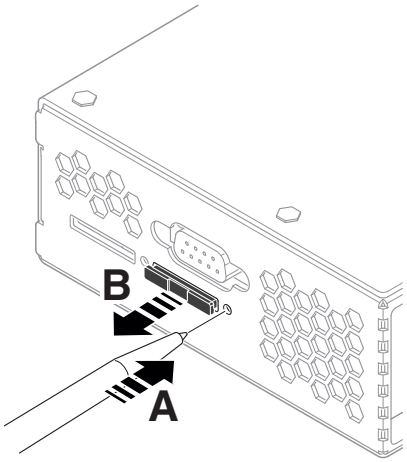

Connecting the supply voltage

Schematic diagram



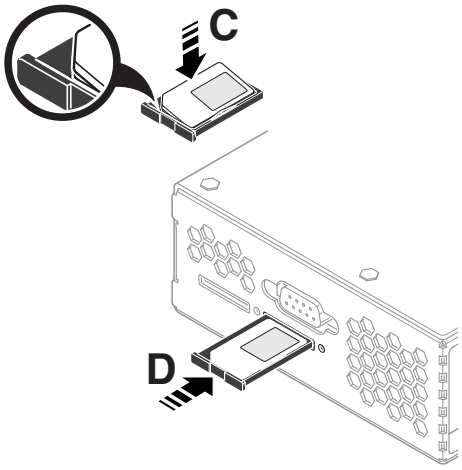

Connection of the cables

Schematic diagram




Remove SIM card holder

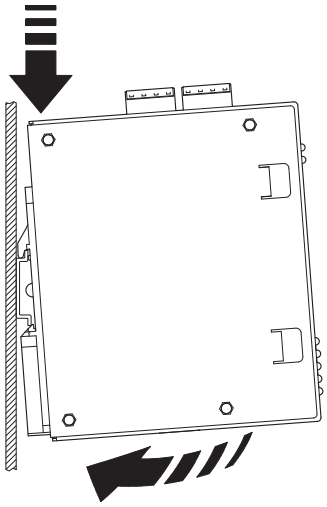
Schematic diagram




Insert the SIM card

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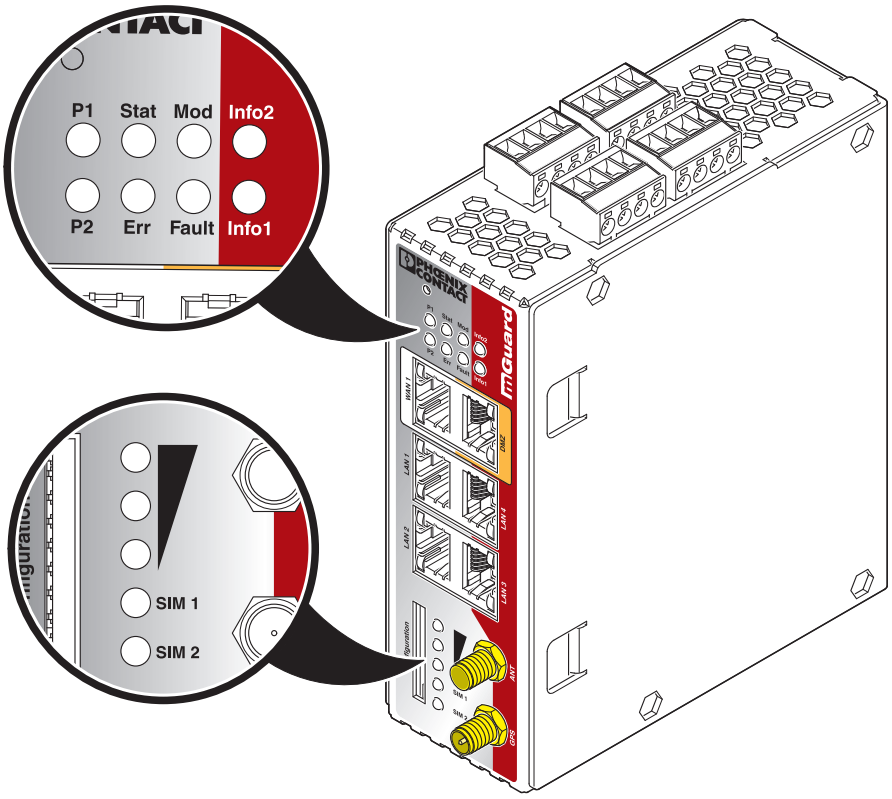
Schematic diagram



Assembly

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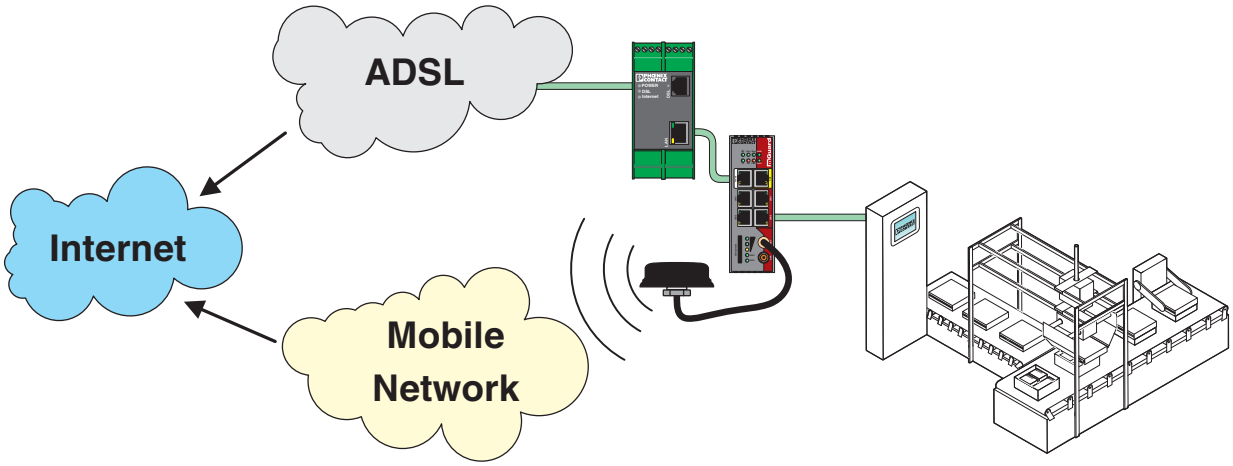
Schematic diagram




Diagnostic and status indicators

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Application drawing




Example application

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