

Router - PSI-MODEM-3G/ROUTER - 2314008

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Industrial UMTS/GSM router (850, 900, 1800, 1900, 2100 MHz) with Ethernet interface. Firewall, NAT and IPsec VPN support. SMA-F female antenna connector. Sending via SMS. 6 digital inputs, 4 digital outputs. Configuration via web-based management.

Your advantages

- ✓ Configuration via web-based management
- ✓ Up to three VPN tunnels simultaneously
- ✓ Starting of VPN via call
- ✓ Can be used worldwide
- ✓ 2 SIM cards for maximum network availability
- ✓ High electromagnetic compatibility
- ✓ Starting of VPN via SMS
- ✓ Authentication with X.509 certificates
- ✓ Connection monitoring
- ✓ Encryption of both SIM card PINs
- ✓ Firewall
- ✓ NAT table
- ✓ 10/100 Mbps automatic detection
- ✓ Autocrossing
- ✓ UMTS mobile phone network: 850, 1900, and 2100 MHz
- ✓ Data rates of up to 7.2 Mbps
- ✓ GSM cellular network: 850, 900, 1800, and 1900 MHz
- ✓ Connection establishment via IP addresses

RoHS



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 594387
GTIN	4046356594387

Router - PSI-MODEM-3G/ROUTER - 2314008

Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 65 °C (not aligned)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Degree of protection	IP20
Noise immunity	EN 61000-6-2

General

Electrical isolation	VCC // UMTS // Ethernet // 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 R&TTE directive 1999/5/EC
Net weight	200 g
Housing material	PA 6.6-FR
Color	green

Power supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Max. current consumption	< 800 mA (At 10 V DC (incl. 4x 50 mA for the outputs))
Typical current consumption	< 200 mA (24 V DC)
	< 90 mA (stand by)

Interfaces

Interface 1	Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3
Interface	Ethernet
No. of ports	1
Connection method	RJ45 jack, shielded
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, FTP, HTTP
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP
Serial transmission speed	10/100 Mbps, auto negotiation

Wireless interface

Interface description	GSM / GPRS / EDGE
Frequency	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))

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Technical data

Wireless interface

	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
	850 MHz (0.25 W (UMTS))
	1900 MHz (0.25 W (UMTS))
	2100 MHz (0.25 W (UMTS))
Transmission power	0.25 W
Data rate	≤ 7.2 Mbps (HSDPA)
	≤ 5.7 Mbps (HSUPA)
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 10
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.
Network check	LED bar graph to display receive quality

Function

Web-based management	yes
Management	Web-based management, SNMP
Security functions	Supported 3DES, AES-128, -192, -256 ESP tunnel X.509v3, PSK MD5, SHA-1 RFC 3706 IP, port, protocol

Digital outputs

Output name	Digital output
Number of outputs	4
Voltage output signal	10 V DC ... 30 V DC (depending on the operating voltage)
Current output signal	≤ 50 mA (Short-circuit-proof)

Digital inputs

Description of the input	Digital input
Number of inputs	6
Voltage input signal	10 V DC ... 30 V DC

Standards and Regulations

Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
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

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Standards and Regulations

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
Noise immunity	EN 61000-6-2
Standards/regulations	EN 61000-4-2
Contact discharge	± 4 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)
	± 1 kV (Antenna)
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz

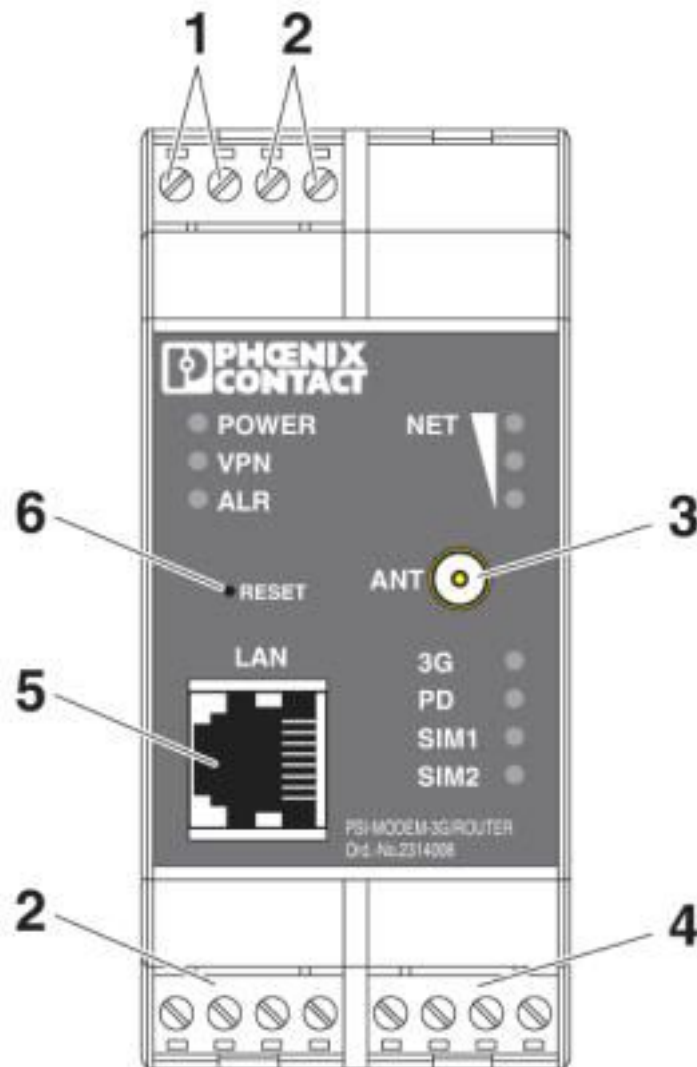
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Router - PSI-MODEM-3G/ROUTER - 2314008

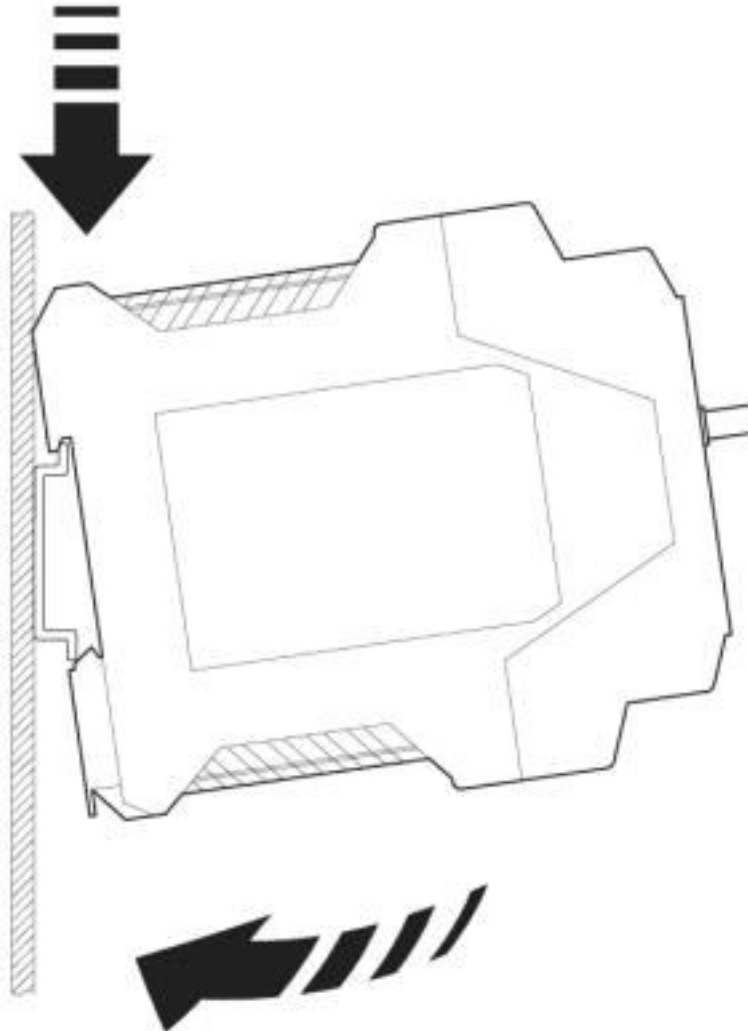
Schematic diagram



Front view

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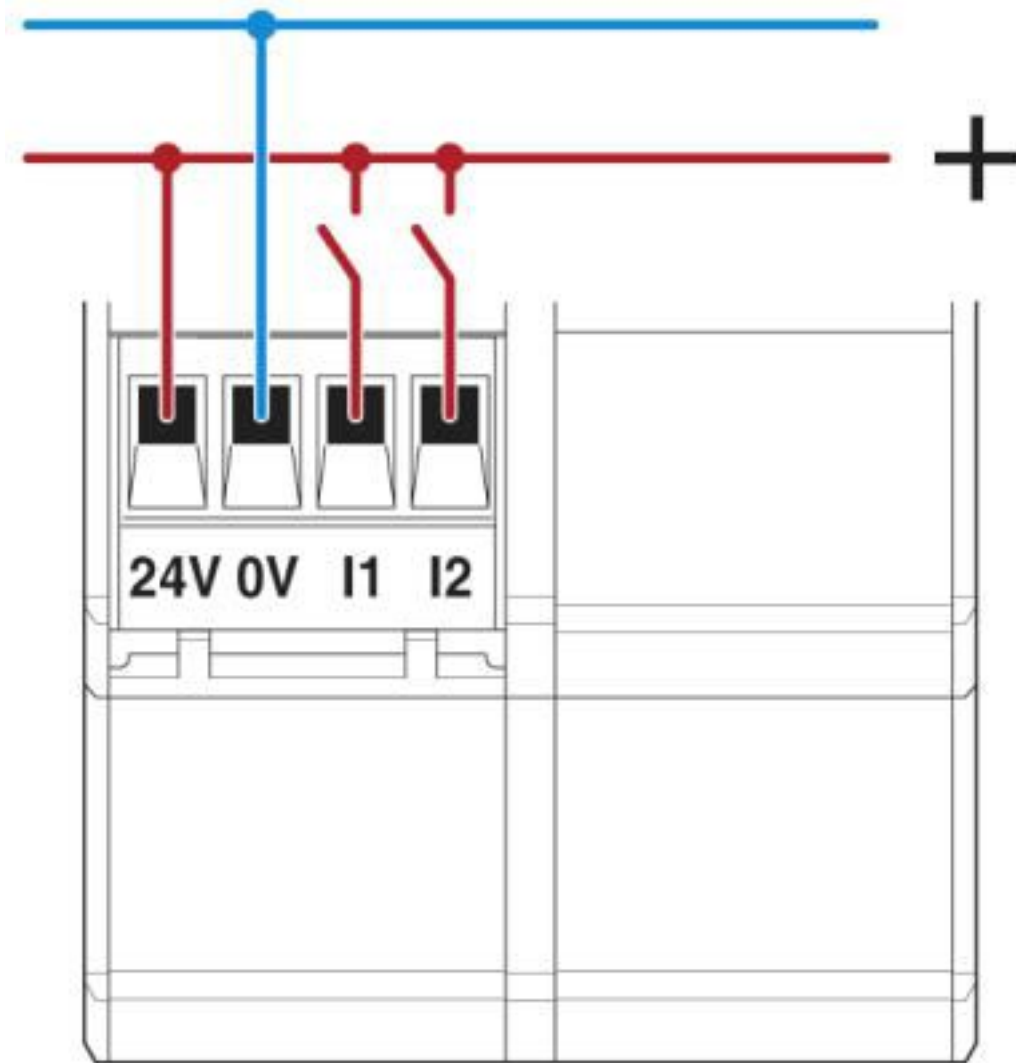
Schematic diagram



Mounting

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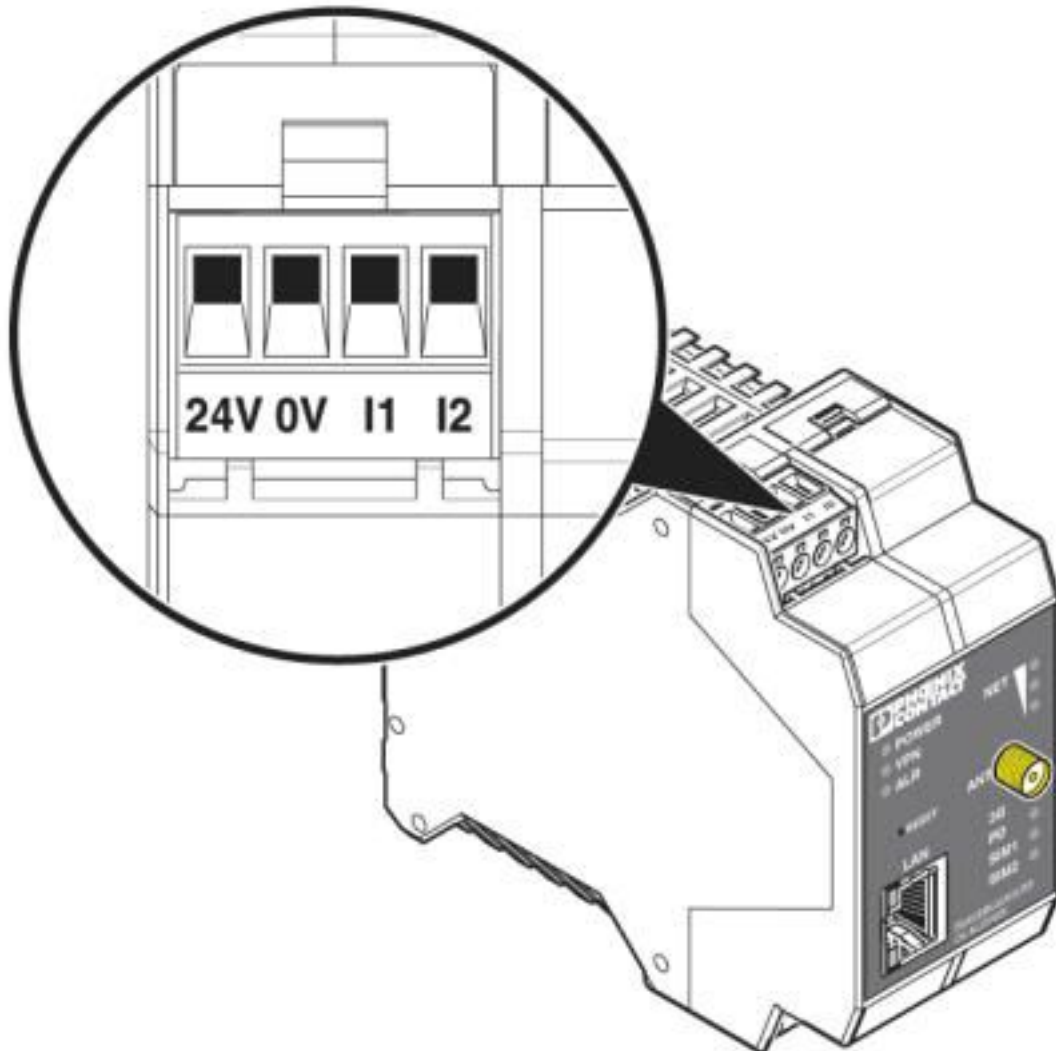
Connection diagram



Switching inputs

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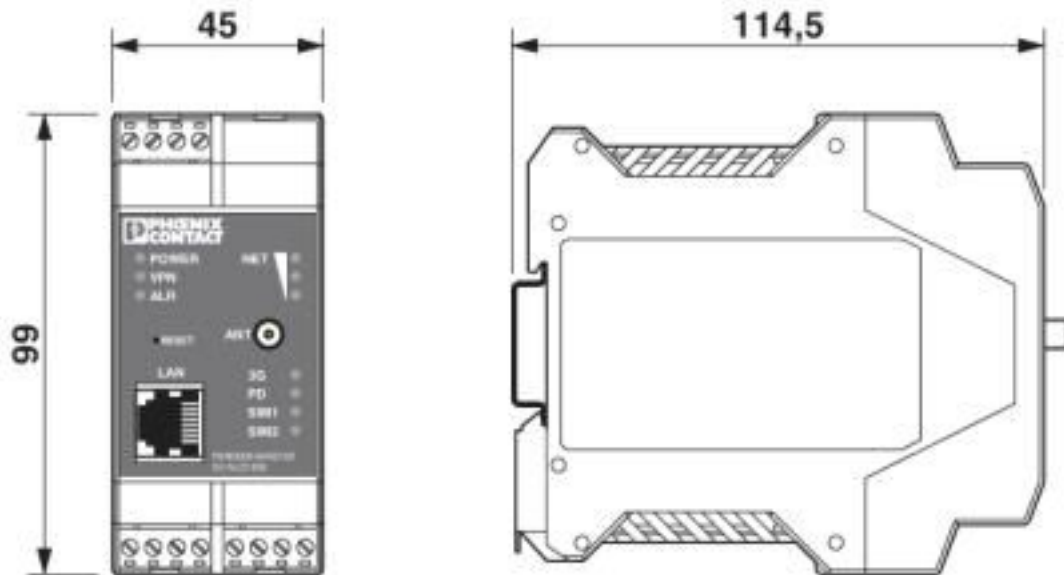
Connection diagram



Device connections

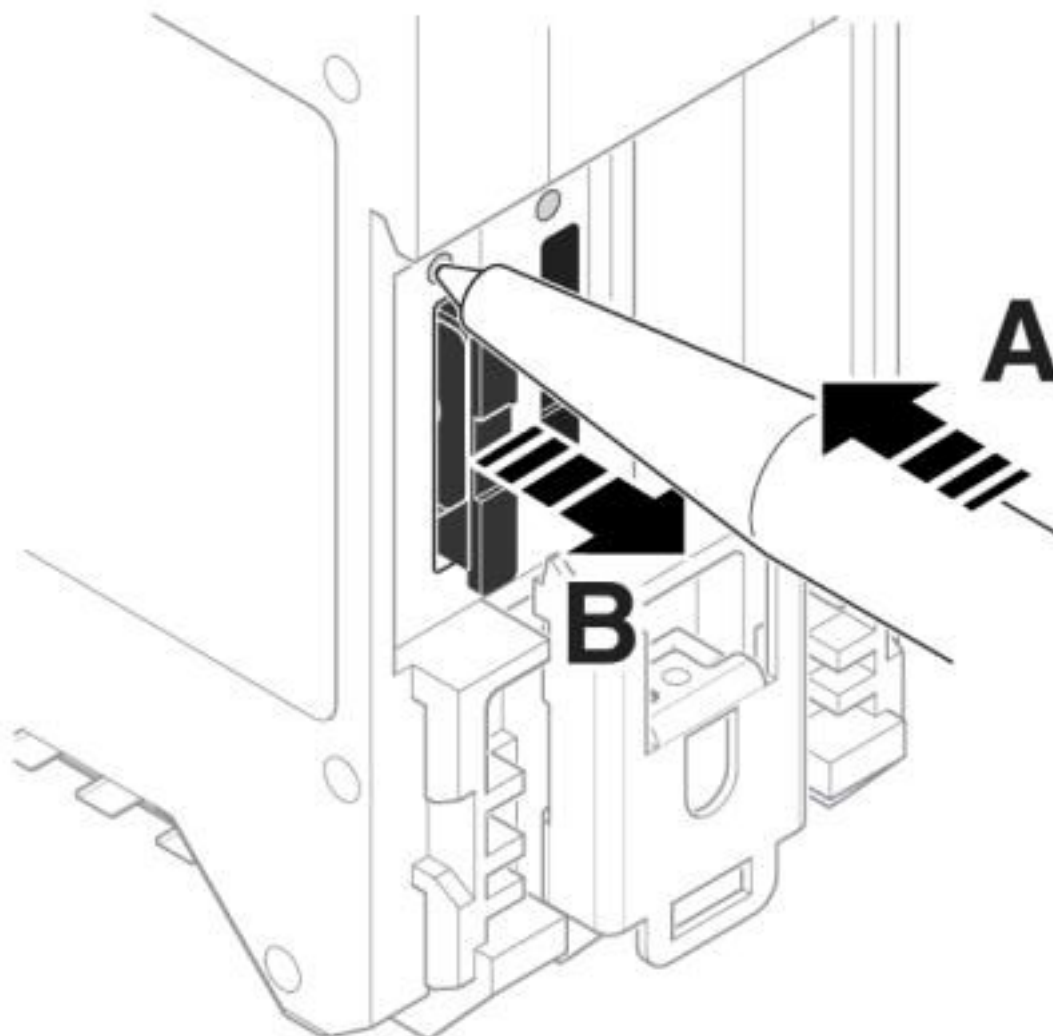
Router - PSI-MODEM-3G/ROUTER - 2314008

Dimensional drawing



Router - PSI-MODEM-3G/ROUTER - 2314008

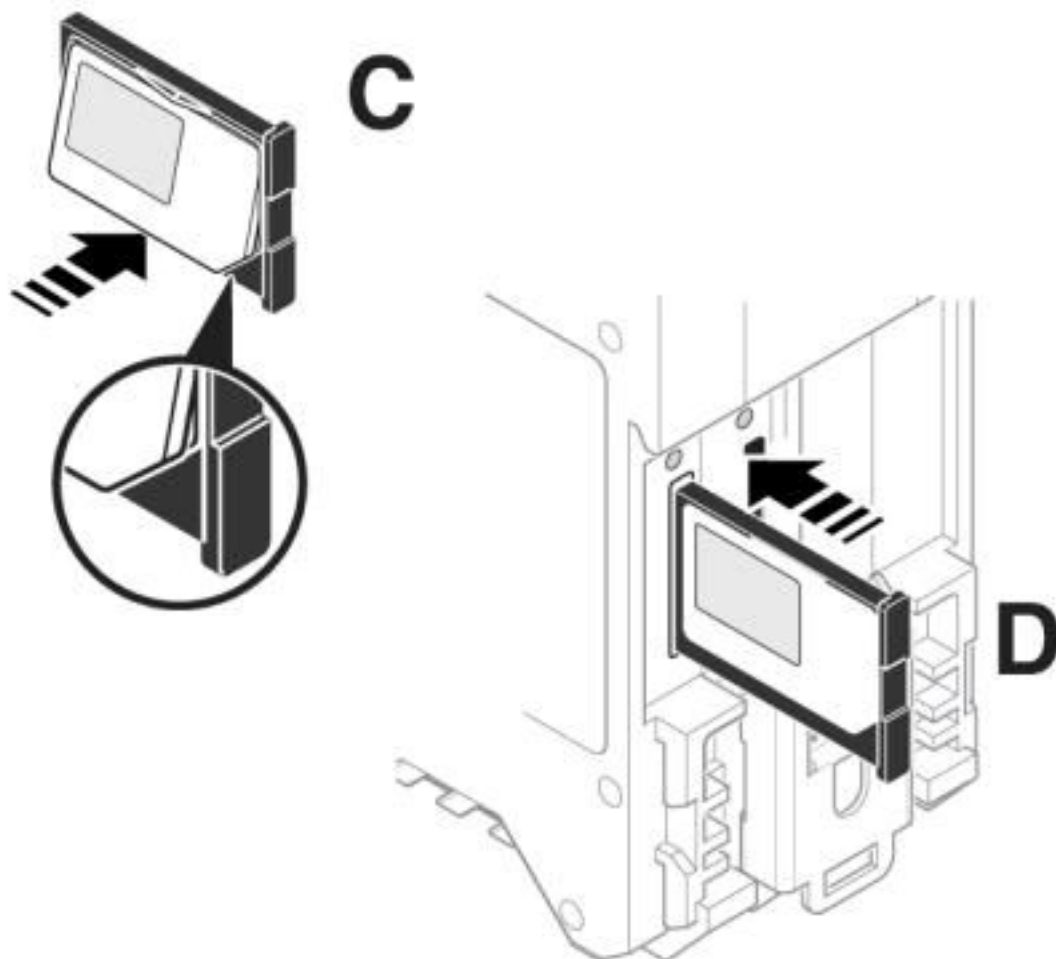
Schematic diagram



Insert the SIM card

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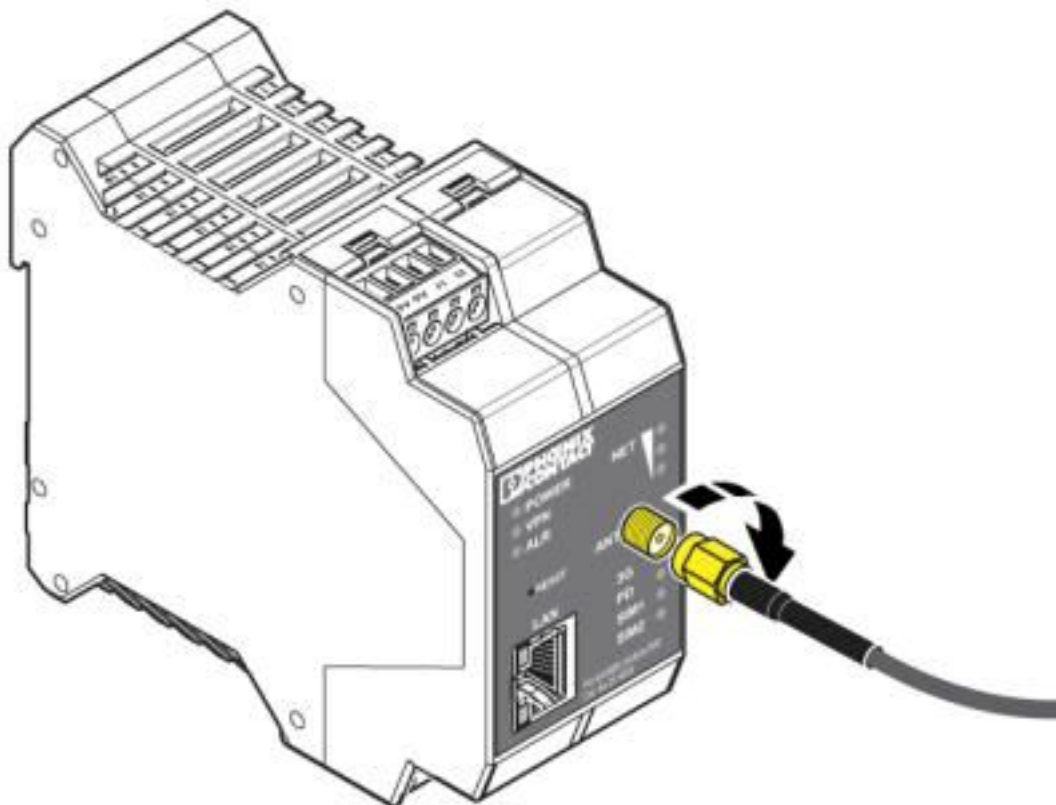
Schematic diagram



Insert the SIM card

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Schematic diagram



Connect the antenna

Classifications

eCl@ss

eCl@ss 10.0.1	19170405
eCl@ss 4.0	27230207
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
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

ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000740
ETIM 5.0	EC001478
ETIM 6.0	EC001478

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Classifications

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43222609
UNSPSC 19.0	43222609

Accessories

Accessories

Antenna

Antenna - PSI-GSM/UMTS-QB-ANT - 2313371



GSM UMTS antenna, with omnidirectional characteristic, 2 m antenna cable with SMA round connector

Antenna - TC ANT MOBILE WALL 5M - 2702273



Multiband cellular antenna with mounting bracket for outdoor installation, 5 m antenna cable with SMA circular connector, suitable for LTE/4G

Coaxial cable

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

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Accessories

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.

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