

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Industrial 4G LTE router, European version, fallback to 3G UMTS/HSPA+ and 2G GPRS/EDGE, 2 Ethernet interfaces, firewall, NAT, IPsec and OpenVPN support, 2x SMA-F antenna socket, SMS and e-mail transmission, 2 digital inputs, 1 digital output

Product description

The **TC ROUTER** for cellular communication implements high-performance data links of up to 150 Mbps via mobile 4G LTE networks. This enables you to establish a mobile broadband connection for highly flexible site networking even in places where a wired Internet connection is not available. These connections can be used to transmit sensitive data securely over mobile networks. Furthermore, the **TC ROUTER** offers a high level of security thanks to IPsec or OpenVPN tunnels, as well as an integrated stateful packet inspection firewall. This means that you can reliably protect your application against unauthorized access.

Your advantages

- Industrial 4G cellular router (LTE)
- Fallback to 3G (UMTS/HSPA) and 2G (GPRS/EDGE)
- Virtual dedicated line to connect networks via cellular network
- IPsec and OpenVPN
- Up to 3 VPN tunnels simultaneously
- VPN remote start via call or SMS
- Stateful inspection firewall for dynamic filtering
- NAT table
- Two switching inputs and one switching output
- Configuration via web-based management or microSD card
- Two local Ethernet connections
- Switchable energy-saving mode
- Integrated logbook
- Connection monitoring
- Extended temperature range of -40 °C ... +70 °C

Commercial data

Item number	2702528
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN25
Product key	DNC422
GTIN	4055626211961

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Weight per piece (including packing)	353.17 g
Weight per piece (excluding packing)	240 g
Customs tariff number	85176200
Country of origin	DE

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Technical data

Notes

Note on application

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

Product properties

Product type	Cellular router
Application	Ethernet
MTTF	383 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	184 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	78 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Electrical properties

Electrical isolation	VCC // LTE // Ethernet // PE
Maximum power dissipation for nominal condition	4.8 W
Mains type	Cellular communication

Supply

Supply voltage range	10 V DC ... 30 V DC (Via pluggable Push-in terminal block)
Typical current consumption	< 200 mA (24 V DC)
	65 mA (With activated energy-saving mode)
Max. current consumption	1.7 A

Function

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

Input data

Digital

Description of the input	Digital input
Number of inputs	2
Voltage input signal	10 V DC ... 30 V DC
Switching level "1" signal	10 V DC ... 30 V DC

Output data

Signal

Output name	Digital output
Number of outputs	1
Voltage output signal	10 V DC ... 30 V DC (depending on the operating voltage)
Current output signal	≤ 50 mA (Not short-circuit proof)

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

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

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	2
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, FTP, HTTP(S)
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1/V2, SMTP(S), NTP, SSL/TLS, STARTTLS

Wireless

Interface description	GSM / GPRS / EDGE / UMTS / HSPA+ / LTE
Frequency range	2600 MHz (LTE B38)
	2500 MHz (LTE B41)
	2300 MHz (LTE B40)
	2100 MHz (LTE B1)
	1800 MHz (LTE B3)
	2600 MHz (LTE B7)
	900 MHz (LTE B8)
	800 MHz (LTE B20)
	700 MHz (LTE B28A)
	2100 MHz (UMTS/HSPA B1)
	900 MHz (UMTS/HSPA B8)
	900 MHz (2 W (EGSM))
1800 MHz (1 W (EGSM))	
Data rate	≤ 150 Mbps (LTE, DL)
	≤ 50 Mbps (LTE, UL)
Antenna	50 Ω impedance SMA antenna socket
Antenna connection method	SMA (female)
SIM Interface	1.8 volt, 3 volt

TC ROUTER 3002T-4G - Router

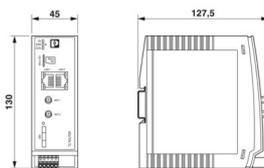


2702528

<https://www.phoenixcontact.com/us/products/2702528>

LTE	CAT4
Country support	Europe

Dimensions

Dimensional drawing	
Width	45 mm
Height	130 mm
Depth	127 mm

Material specifications

Color (Upper housing part)	light gray (RAL 7035)
Material (Housing)	Plastic

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Shock (operation): 15g

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (Maximum transmission power 5 dBm) -40 °C ... 60 °C (Maximum transmission power 23 dBm)
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
-------------	--------------

Corrosive gas test

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

Wireless approval Brazil, ANATEL

Certificate	09685-24-06497
-------------	----------------

EMC data

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
-------------------------------	---

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Noise immunity	EN 61000-6-2
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	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.

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
-------------	--

Mounting

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

TC ROUTER 3002T-4G - Router

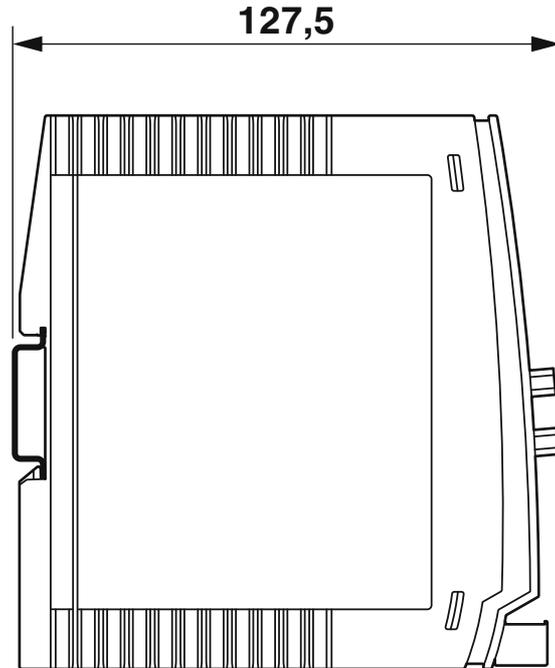
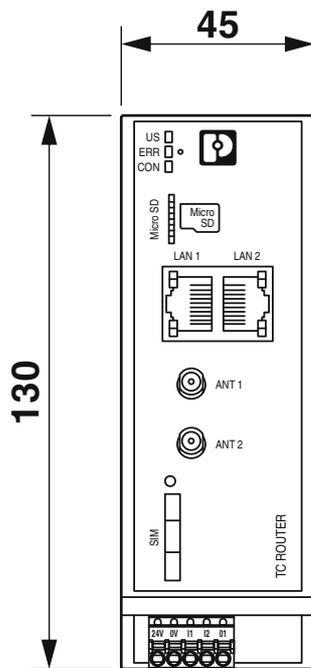
2702528

<https://www.phoenixcontact.com/us/products/2702528>



Drawings

Dimensional drawing



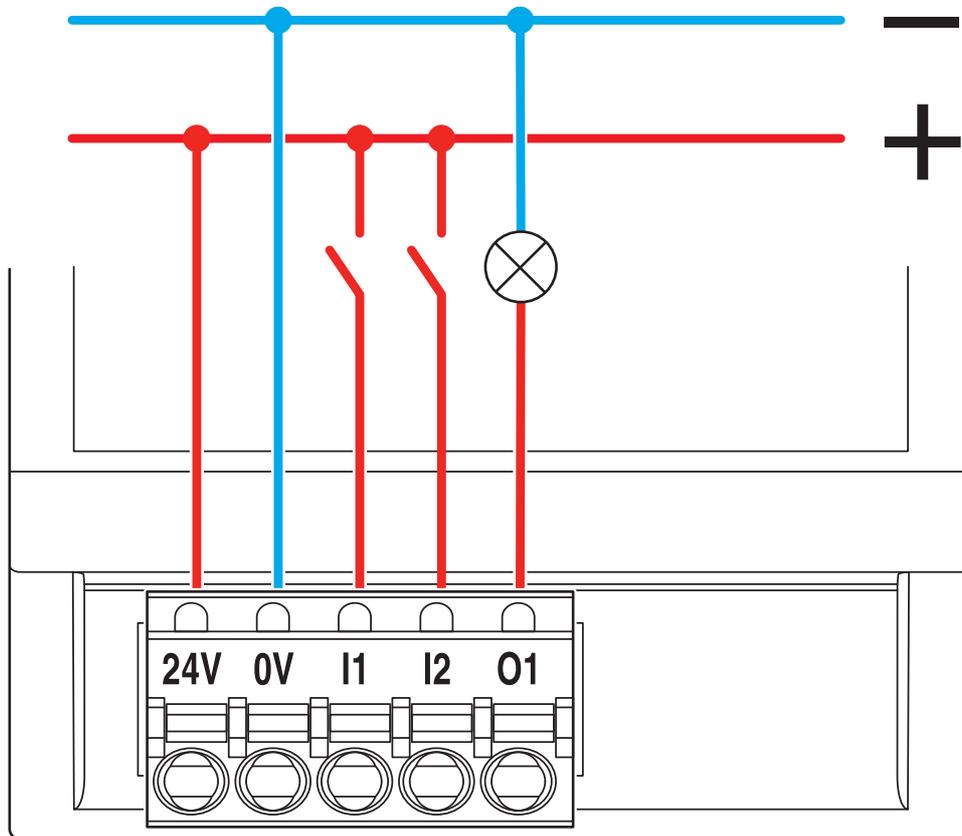
TC ROUTER 3002T-4G - Router

2702528

<https://www.phoenixcontact.com/us/products/2702528>



Connection diagram



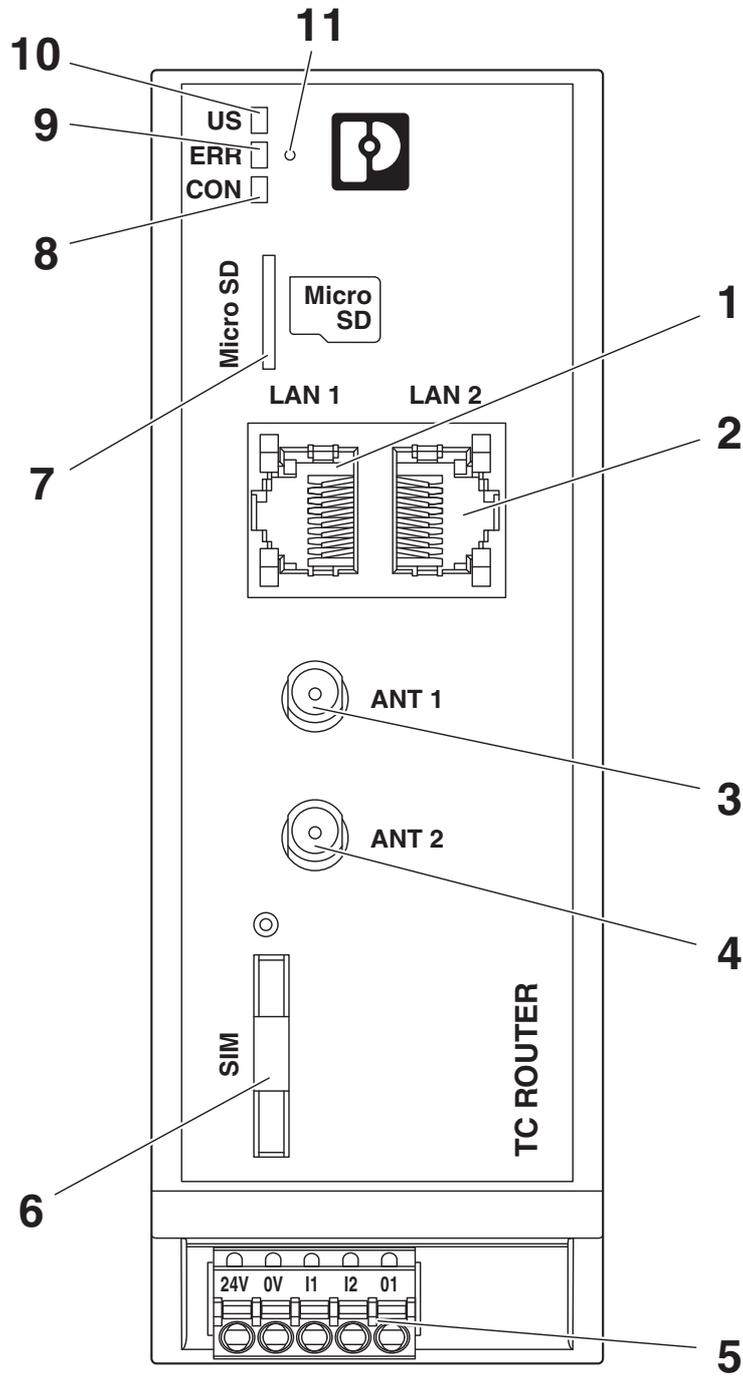
Switching inputs

TC ROUTER 3002T-4G - Router

2702528

<https://www.phoenixcontact.com/us/products/2702528>

Schematic diagram



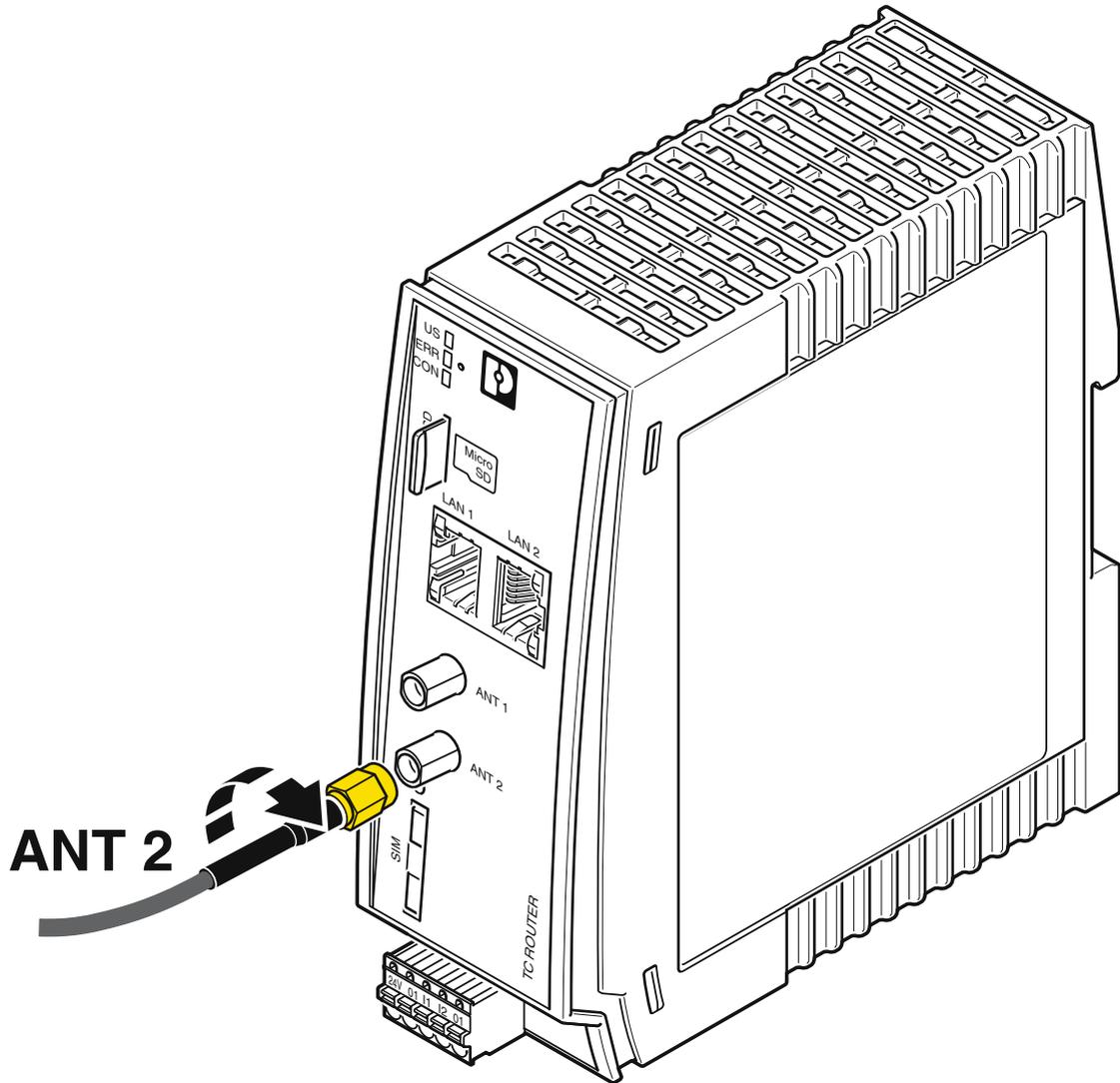
Front view

TC ROUTER 3002T-4G - Router

2702528

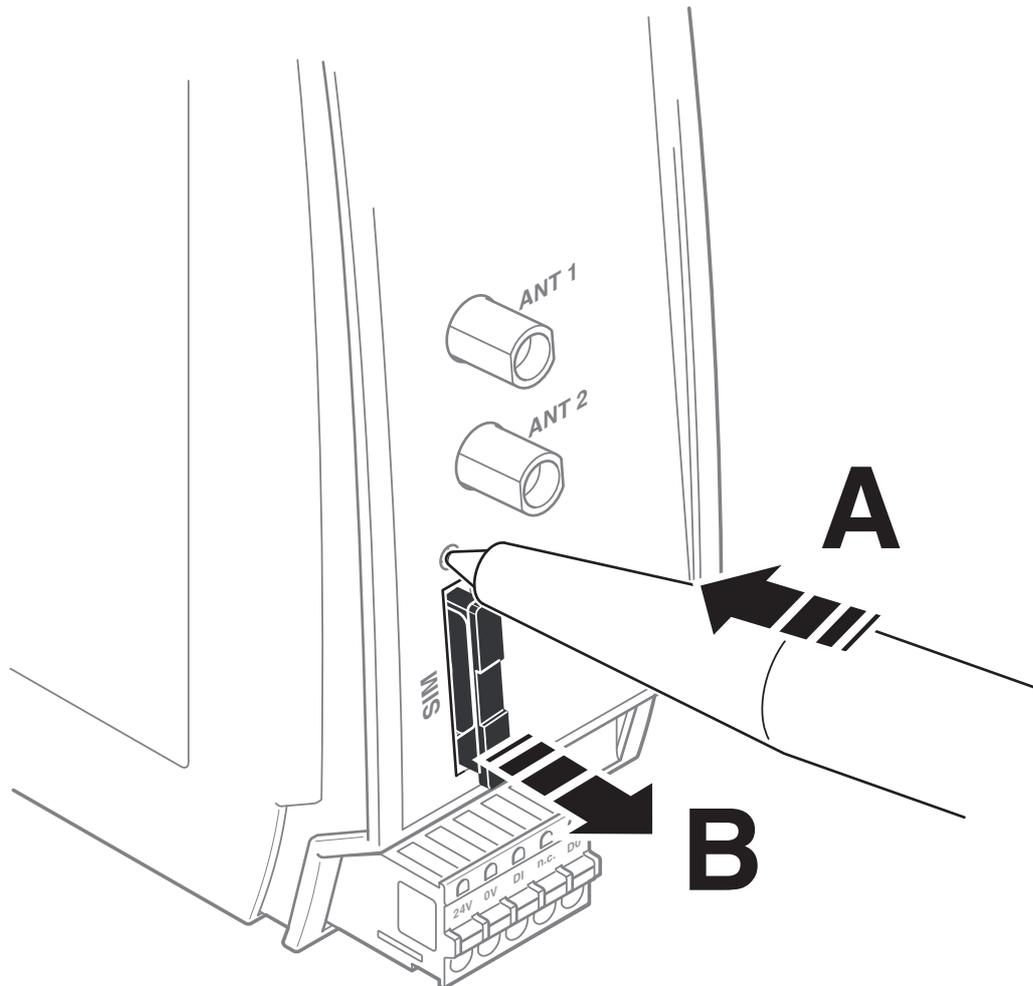
<https://www.phoenixcontact.com/us/products/2702528>

Schematic diagram



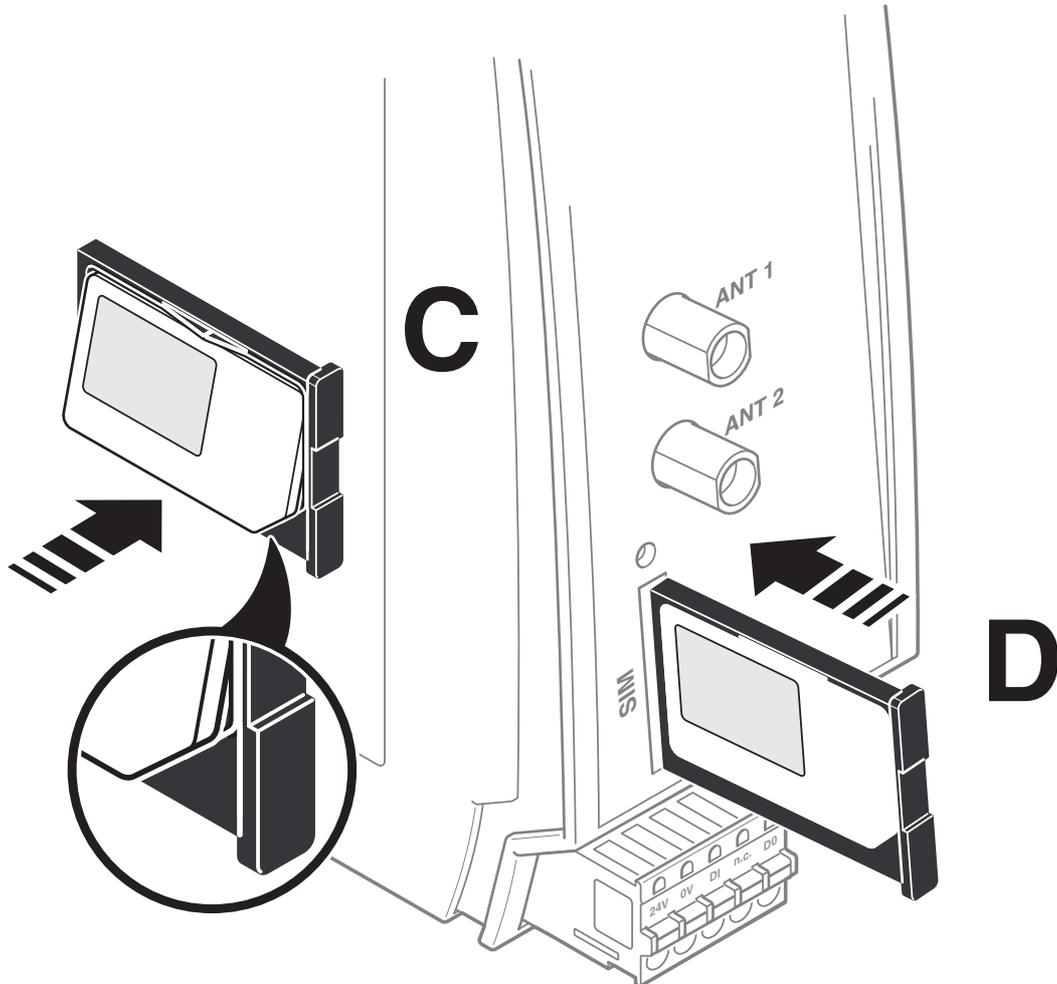
Connect the antenna

Schematic diagram



Remove SIM card holder

Schematic diagram



Insert the SIM card

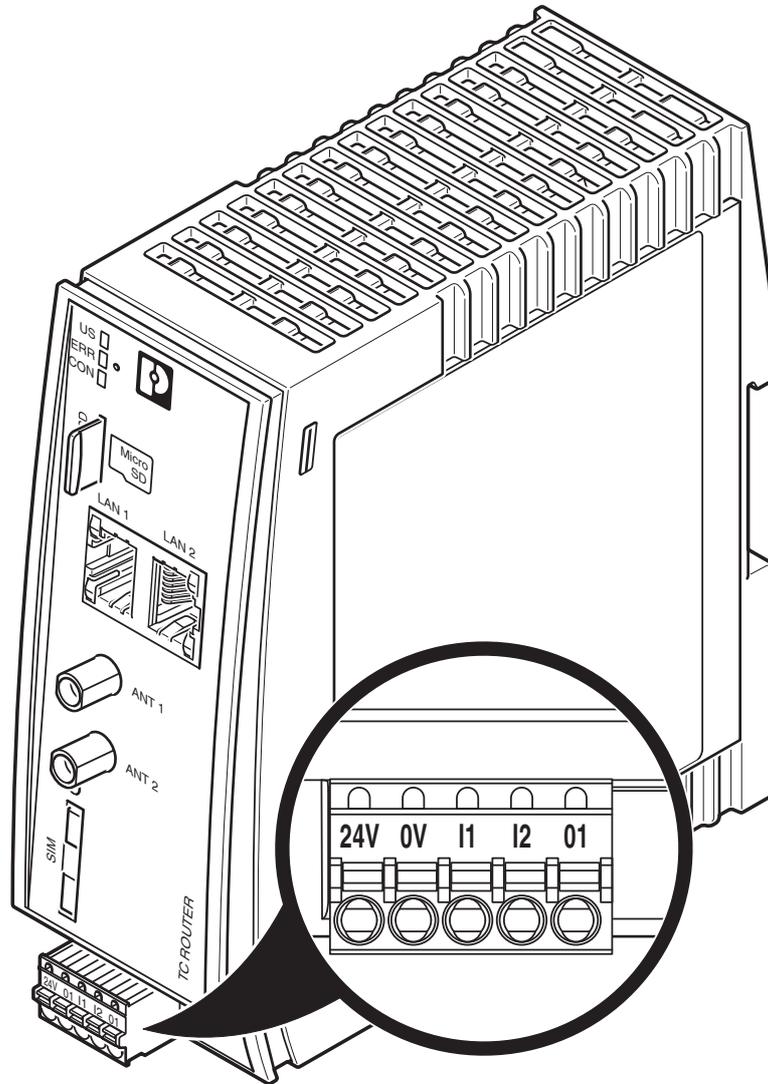
TC ROUTER 3002T-4G - Router

2702528

<https://www.phoenixcontact.com/us/products/2702528>



Schematic diagram



Device connections

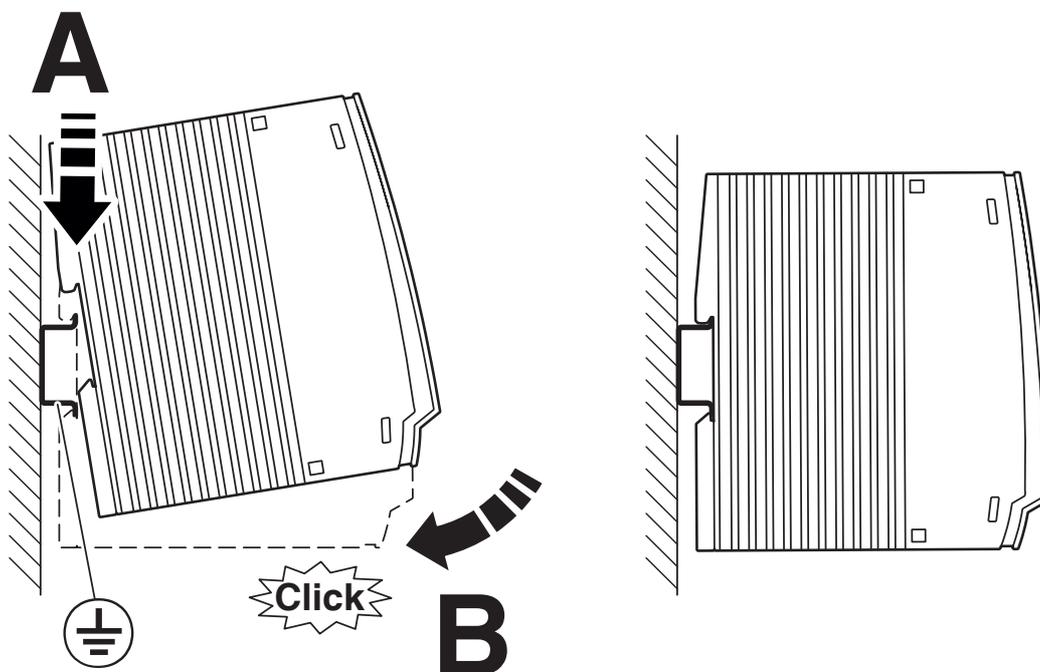
TC ROUTER 3002T-4G - Router

2702528

<https://www.phoenixcontact.com/us/products/2702528>



Schematic diagram



Mounting

TC ROUTER 3002T-4G - Router

2702528

<https://www.phoenixcontact.com/us/products/2702528>



Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702528>

ANATEL

Approval ID: 09685-24-06497

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Classifications

ECLASS

ECLASS-13.0	19170502
ECLASS-15.0	19170502

ETIM

ETIM 9.0	EC001478
----------	----------

UNSPSC

UNSPSC 21.0	43222609
-------------	----------

TC ROUTER 3002T-4G - Router



2702528

<https://www.phoenixcontact.com/us/products/2702528>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

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