

2702532

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Industrial LTE 4G router, version for Verizon wireless (US), 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, high-speed 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 cellular 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)
- · Cellular high-speed Internet connection up to 150 Mbps
- · Networking of Ethernet end devices via the cellular network
- · Ethernet SMS gateway for easy alerting
- · Stateful inspection firewall for dynamic filtering
- · NAT table and port forwarding for direct remote access to an end device
- · Two switching inputs and one switching output
- · Configuration via web-based management or microSD card
- · 2 local Ethernet connections
- · Switchable energy-saving mode
- · Integrated logbook
- · Connection monitoring
- Extended temperature range of -40 °C ... +70 °C

Commercial data

Item number	2702532
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN25
Product key	DNC422
Catalog page	Page 413 (C-6-2019)
GTIN	4055626212852
Weight per piece (including packing)	266 g



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Weight per piece (excluding packing)	266 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Notes

	restriction

000 1	
CCCex note	Use in potentially explosive areas is not permitted in China.

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%)
Insulation characteristics	
Pollution degree	2

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 (SELV, 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
Connection method	Push-in spring connection

Function

	Management	Web-based management, SNMP
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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



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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)

Connection data

Supply

Connection method	Push-in spring connection
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
Conductor cross section, flexible	0.14 mm² 1.50 mm²
Conductor cross section, rigid	0.14 mm² 1.50 mm²
Conductor cross section AWG	26 16
Stripping length	9 mm

Interfaces

Web server	yes
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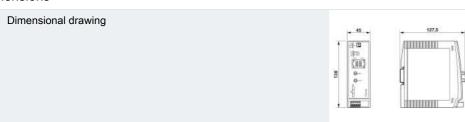
Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

Serial transmission speed	10/100 Mbps, auto negotiation
Connection method	RJ45 jack, shielded
No. of channels	2 (SELV)
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	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
Antenna connection method	SMA (female)
SIM Interface	1.8 volt, 3 volt
LTE	CAT4
Country support	USA

Dimensions





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Height 130 mm Depth 126 mm Material specifications Material Plastic	Width	45 mm
Asterial specifications Material specifications Material specifications Material Plastic Environmental and real-life conditions Ambient conditions Degree of protection IP20 (Manufacturer's declaration) Anbient temperature (operation) Ambient temperature (storage/transport) All 'C 60 'C (Maximum transmission power 5 dBm) Anbient temperature (storage/transport) Alltude \$ 5000 m (For restrictions, see the manufacturer's declaration for alltude operation) Permissible humidity (operation) Permissible humidity (storage/transport) 10 % 95 % (non-condensing) Approvals 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 Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A Wireless approval USA. FCC Certificate N7NHL7518 EMC data Noise immunity EN 61000-8-2 Electronagnetic compatibility Conformance with RED Directive 2014/53/EU Electrostatic discharge Standards/regulations EN 61000-4-2 Electrostatic discharge Contact discharge 1 6 kV (Test Level 3) Electromagnetic HF field Standards/regulations EN 61000-4-3 Electromagnetic HF field Frequency range 80 MHz 3 GHz (Test Level 3)		
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Frequency range 80 MHz 3 GHz (Test Level 3)	Standards/regulations	EN 61000-4-3
Frequency range 80 MHz 3 GHz (Test Level 3)	Electromagnetic HF field	
		80 MHz 3 GHz (Test Level 3)



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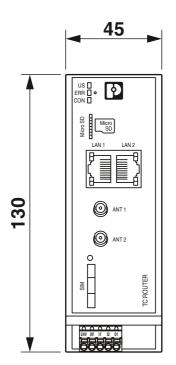
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	± 2 kV (Test Level 3)
Signal	± 2 kV (Ethernet)
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Input	± 0.5 kV (symmetrical)
	± 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.
ounting	
Mounting type	DIN rail mounting



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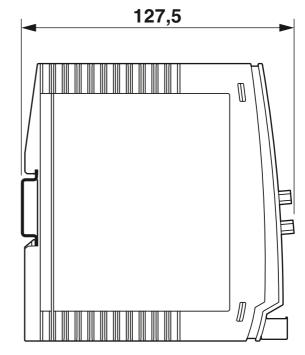
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Drawings



Housing dimensions

Dimensional drawing

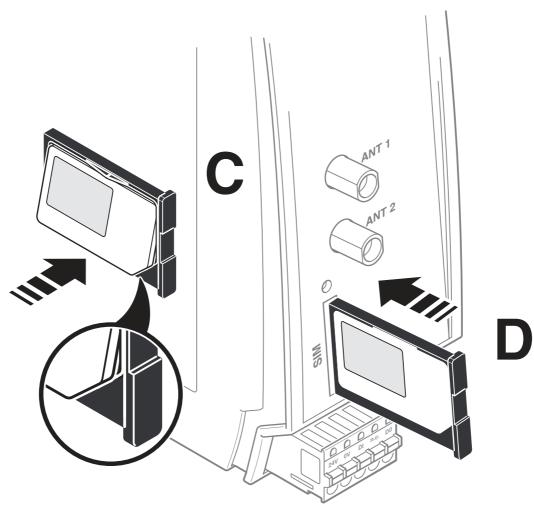




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Schematic diagram



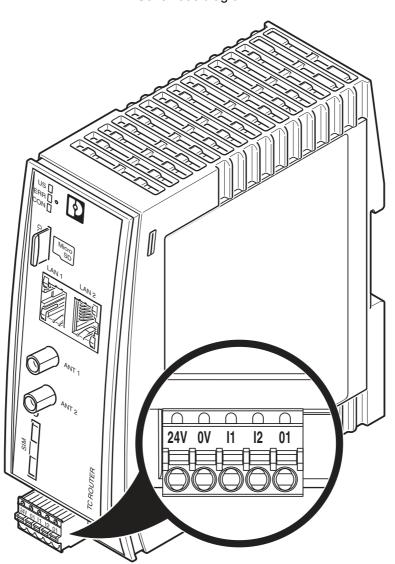
Insert the SIM card



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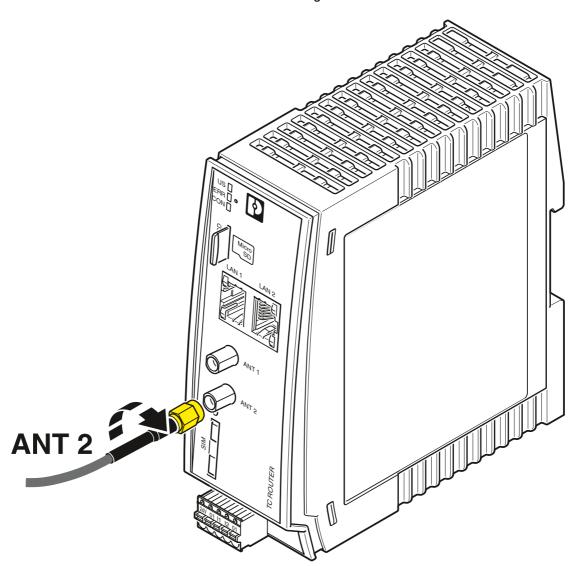
Device connections



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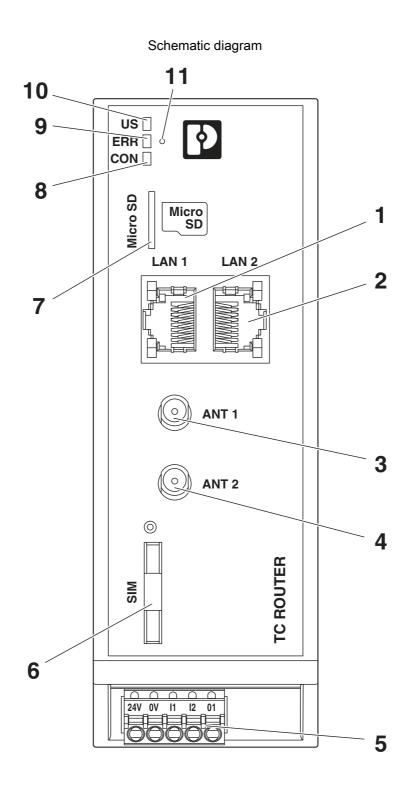


Connect the antenna



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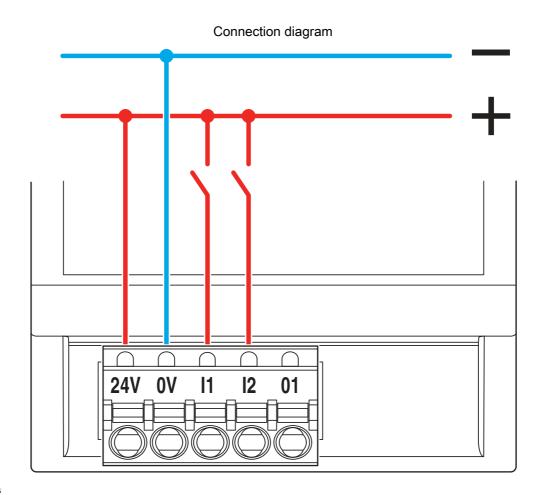


Front view



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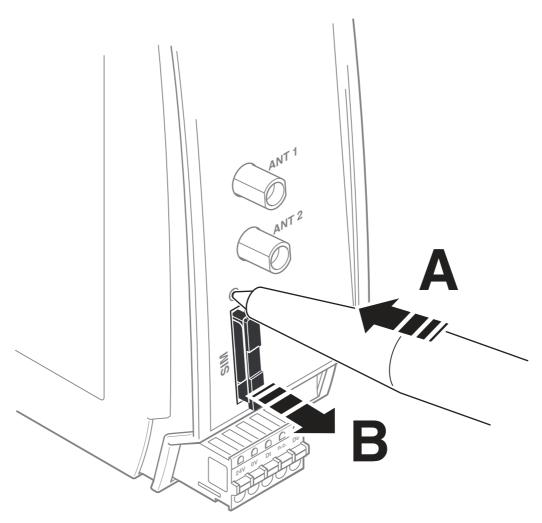
Switching inputs



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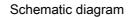


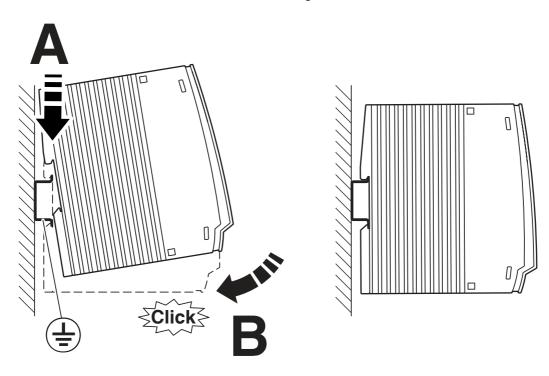
Remove SIM card holder



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Mounting



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2702532



cULus Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 366272



UL Listed

Approval ID: FILE E 366272

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	19170502
	ECLASS-12.0	19170502
	ECLASS-13.0	19170502
ETIM		
	ETIM 8.0	EC001478
UNSPSC		

43222600



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

TRIO-PS-2G/1AC/24DC/3/C2LPS - Power supply unit

2903147

https://www.phoenixcontact.com/us/products/2903147



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: 1-phase, output: 24 V DC/3 A C2LPS

FK-MCP 1,5/ 5-ST-3,81GY35BD-01 - PCB connector

1105115

https://www.phoenixcontact.com/us/products/1105115



PCB connector, nominal cross section: 1.5 mm², color: light grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 5, product range: FK-MCP 1,5/..-ST, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard



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MGUARD SECURE VPN CLIENT LIC - License

2702579

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License for mGuard Secure VPN Client v11.x

TC ANT MOBILE WALL 5M - Antenna

2702273

https://www.phoenixcontact.com/us/products/2702273



Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz \dots 6 GHz, gain: 3 dBi \dots 7 dBi, degree of protection: IP66, connection: SMA (male), incl. 5 m connecting cable, mounting bracket, and mast clamps



2702532

https://www.phoenixcontact.com/us/products/2702532

ANT-OMNI-0671-01 - Antenna

1396316

https://www.phoenixcontact.com/us/products/1396316



Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 7. 1 GHz, gain: 1 dBi ... 3 dBi, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps

ANT-OMNI-0671-02 - Antenna

1396318

https://www.phoenixcontact.com/us/products/1396318



Multiband omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 0.6 GHz ... 7.1 GHz, gain: 2 dBi ... 4 dBi, degree of protection: IP67, shockproof: IK10, seawater-resistant, connection: N (female)



2702532

https://www.phoenixcontact.com/us/products/2702532

ANT-OMNI-0671-03 - Antenna

1565400

https://www.phoenixcontact.com/us/products/1565400



Multiband omnidirectional antenna for installation in plastic control cabinets not visible from the outside, frequency band: 0.6 GHz ... 7.1 GHz, gain: 1 dBi 2 dBi, connection: SMA (male), antenna connector with 90° articulated joint

NBC-COX-CNM/0.5-S/COX-CKM - Coaxial cable

1340139

https://www.phoenixcontact.com/us/products/1340139



Coaxial cable, 50 Ω , length: 0.5 m, N(m) - SMA(m), external cable diameter: 2. 8 mm, transmission frequency: \leq 7.25 GHz, typical attenuation: 800 MHz 0.4 dB, 2.4 GHz 0.7 dB, 5.8 GHz 1.1 dB, 7.25 GHz 1.5 dB



2702532

https://www.phoenixcontact.com/us/products/2702532

NBC-COX-CNM/1.0-M/COX-CKM - Coaxial cable

1340143

https://www.phoenixcontact.com/us/products/1340143



Coaxial cable, 50 Ω , length: 1 m, N(m) - SMA(m), external cable diameter: 4. 9 mm, transmission frequency: \leq 7.25 GHz, typical attenuation: 800 MHz 0.5 dB, 2.4 GHz 0.8 dB, 5.8 GHz 1.2 dB, 7.25 GHz 1.4 dB

NBC-COX-CNM/3.0-M/COX-CKM - Coaxial cable

1340144

https://www.phoenixcontact.com/us/products/1340144



Coaxial cable, 50 Ω , length: 3 m, N(m) - SMA(m), external cable diameter: 4. 9 mm, transmission frequency: \leq 7.25 GHz, typical attenuation: 800 MHz 1.4 dB, 2.4 GHz 2.3 dB, 5.8 GHz 3.6 dB, 7.25 GHz 4.2 dB



2702532

https://www.phoenixcontact.com/us/products/2702532

NBC-COX-CNM/5.0-M/COX-CKM - Coaxial cable

1340147

https://www.phoenixcontact.com/us/products/1340147



Coaxial cable, 50 Ω , length: 5 m, N(m) - SMA(m), external cable diameter: 4. 9 mm, transmission frequency: \leq 7.25 GHz, typical attenuation: 800 MHz 2.3 dB, 2.4 GHz 3.8 dB, 5.8 GHz 6 dB, 7.25 GHz 7.3 dB

RAD-CAB-EF393-3M - Antenna cable

2867649

https://www.phoenixcontact.com/us/products/2867649



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: stranded, attenuation: 1.0 / 1.8 / 3.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2 x N (male), cable length: 3 m (10 ft.)



2702532

https://www.phoenixcontact.com/us/products/2702532

RAD-CAB-EF393- 5M - Antenna cable

2867652

https://www.phoenixcontact.com/us/products/2867652



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: stranded, attenuation: 1.6 / 2.9 / 5.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2 x N (male), cable length: 5 m (16 ft.)

RAD-CAB-EF393-10M - Antenna cable

2867665

https://www.phoenixcontact.com/us/products/2867665



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: stranded, attenuation: 2.9 / 5.6 / 9.9 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2 x N (male), cable length: 10 m (32 ft.)



2702532

https://www.phoenixcontact.com/us/products/2702532

RAD-CAB-EF393-15M - Antenna cable

2885634

https://www.phoenixcontact.com/us/products/2885634



Antenna cable, outside diameter: 10 mm (0.4 in.), inner conductor: stranded, attenuation: 4.3 / 8.3 / 14.8 dB at 0.9 / 2.4 / 5.8 GHz, connection: 2 x N (male), cable length: 15 m (50 ft.)

CN-UB-70DC-6-BB - Surge protection device

2803166

https://www.phoenixcontact.com/us/products/2803166



Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female



2702532

https://www.phoenixcontact.com/us/products/2702532

RAD-ADP-N/F-N/F - Adapter

2867843

https://www.phoenixcontact.com/us/products/2867843

Antenna adapter for control cabinet feed-through, frequency range: 0.3 GHz \dots 6 GHz, degree of protection: IP65, connection: 2 x N (female)

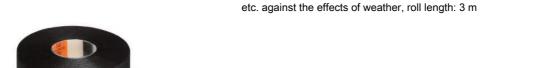
Vulcanizing sealing tape for external protection of adapters, cable connections,



RAD-TAPE-SV-19-3 - Weather protection tape

2903182

https://www.phoenixcontact.com/us/products/2903182



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