

Router - TC ROUTER 2002T-3G - 2702531

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Industrial 3G router, European version, fallback to 2G GPRS/EDGE, 2 Ethernet interfaces, firewall, NAT, 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.

Your advantages

- ✓ Industrial 3G mobile router (UMTS/HSPA)
- ✓ Fallback to 2G (GPRS/EDGE)
- ✓ Networking of Ethernet end devices via the mobile 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
- ✓ Two local Ethernet connections
- ✓ Switchable energy-saving mode
- ✓ Integrated logbook
- ✓ Connection monitoring
- ✓ Extended temperature range, -40 °C ... +70 °C



Key Commercial Data

Packing unit	1
GTIN	 4 055626 212838
GTIN	4055626212838

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Custom tariff number	85176200
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Technical data

Note

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

Width	45 mm
Height	130 mm
Depth	126 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (Maximum transmission power 10 dBm)
	-40 °C ... 60 °C (Maximum transmission power 23 dBm)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 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
Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Mounting type	DIN rail mounting
Net weight	232.8 g
Housing material	Plastic
Color	gray
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%)

Power supply

Connection method	Push-in spring connection
Supply voltage range	10 V DC ... 30 V DC (Via pluggable Push-in terminal block)
Max. current consumption	1.7 A
Typical current consumption	< 200 mA (24 V DC)
	65 mA (With activated energy-saving mode)
Connection method	Push-in spring connection
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²

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Power supply

Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 0.75 mm ²
Conductor cross section flexible max.	1.50 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section solid max.	1.50 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section AWG max.	16
Conductor cross section AWG min.	26
Stripping length	9 mm

Interfaces

Interface 1	Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3
Interface	Ethernet
No. of ports	2
Connection method	RJ45 jack, shielded
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
Serial transmission speed	10/100 Mbps, auto negotiation

Wireless interface

Interface description	GSM / GPRS / EDGE / UMTS / HSPA
Frequency range	900 MHz (UMTS/HSPA B8)
	2100 MHz (UMTS/HSPA B1)
	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
Data rate	≤ 21.6 Mbps (HSPA (DL))
	≤ 5.76 Mbps (HSPA (UL))
Antenna	50 Ω impedance SMA antenna socket
SIM interface 1	1.8 volt, 3 volt
GPRS	Class 12, Class B
	CS1 ... CS4
EDGE	Multislot Class 10
UMTS	HSPA 3GPP R7

Function

Web-based management	yes
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Function

Management	Web-based management, SNMP
Security functions	IP, port, protocol

Digital outputs

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)

Digital inputs

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

Conformance/approvals

Designation	CE
Identification	CE-compliant
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	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	15g
Noise immunity	EN 61000-6-2
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 61000-4-6
Frequency range	0.15 MHz ... 80 MHz

Environmental Product Compliance

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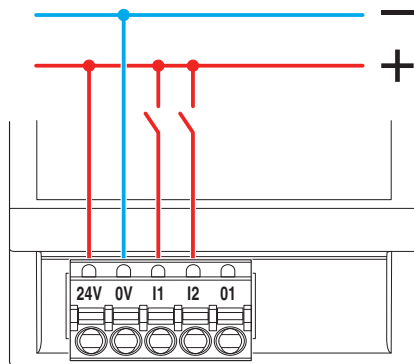
Technical data

Environmental Product Compliance

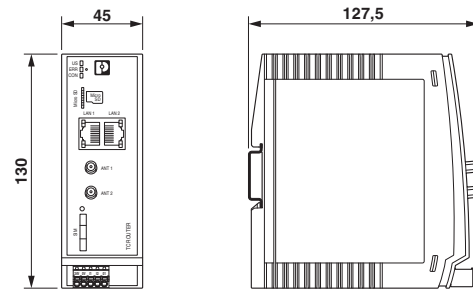
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Connection diagram



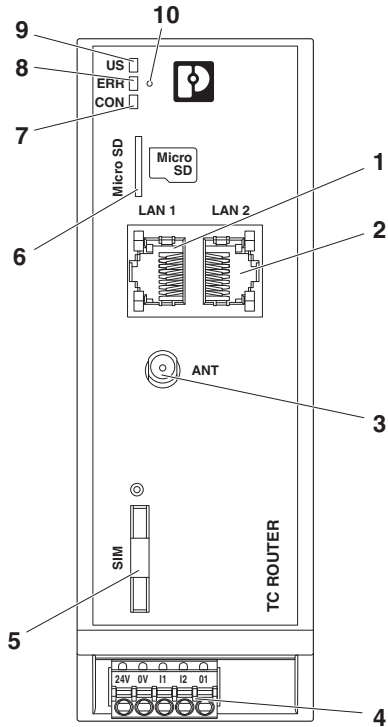
Dimensional drawing



Switching inputs

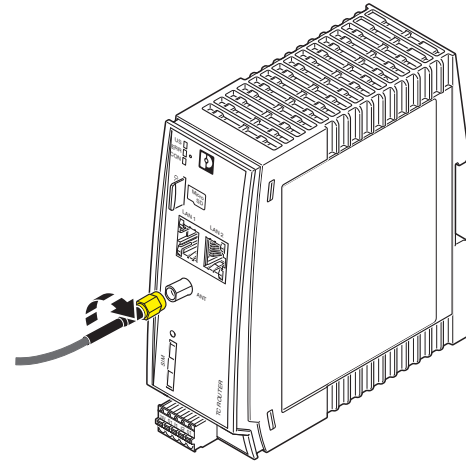
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Schematic diagram



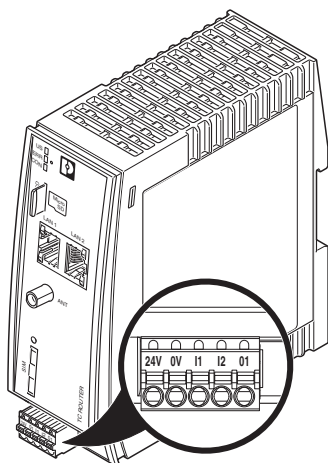
Front view

Schematic diagram



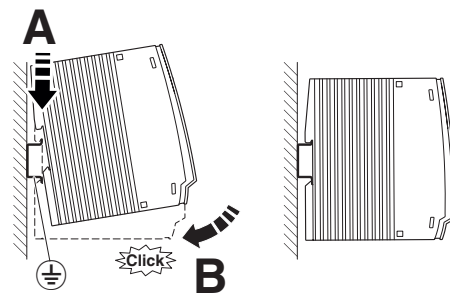
Connect the antenna

Schematic diagram



Device connections

Schematic diagram



Mounting

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Schematic diagram



Schematic diagram



Remove SIM card holder

Insert the SIM card

Classifications

eCl@ss

eCl@ss 10.0.1	19170502
eCl@ss 11.0	19170502
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170103
eCl@ss 9.0	19170103

ETIM

ETIM 6.0	EC001478
ETIM 7.0	EC001478