

1234352

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Industrial 4G LTE router, EU device, 3G (UMTS/HSPA) and 2G (GPRS/EDGE) fallback, 2-port switch, firewall, NAT, IPsec and OpenVPN support, 4 DI, 2 DO

Product description

The TC ROUTER 4000... cellular routers are the successor to: TC ROUTER 3000... (TC ROUTER 3002T-4G, 2702528 and TC ROUTER 3002T-3G, 2702529), TC ROUTER 2000... (TC ROUTER 2002T-4G, 2702530 and TC ROUTER 2002T-3G, 2702531) In addition to the proven 4G-LTE cellular connection, the routers also feature an integrated WLAN interface or a serial RS-232/485 interface, depending on the version. Connection to the internet can be established via the cellular interface, via a wired WAN port, or via an existing WLAN network.

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
- · Configuration via web-based management or microSD card
- Two local Ethernet connections
- · Switchable energy-saving mode
- · Integrated logbook
- Extended temperature range of -40 °C ... +70 °C
- · Micro SIM and eSIM for maximum network availability
- · Four digital inputs
- · Two digital outputs

Commercial data

Item number	1234352
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC422
GTIN	4063151338725
Weight per piece (including packing)	341.6 g
Weight per piece (excluding packing)	332 g
Country of origin	DE



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Technical data

Notes

Note on application	
Note on application	Only for industrial use
Jtilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Cellular router
Application	Ethernet
MTTF	384 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	180 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	64 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Electrical properties

Electrical isolation

Max. current consumption

Maximum power dissipation for nominal condition	4.32 W
Mains type	Cellular communication
Supply	
Supply voltage range	10 V DC 30 V DC (Via pluggable Push-in terminal block)
Typical current consumption	< 180 mA (24 V DC)
	< 500 mA (10 V DC)

1.5 A

VCC // LTE // Ethernet // PE

≤ 3 mA (With activated energy-saving mode)

Function

Lanction	
Management	Web-based management
	SNMPv1/v2/v3
	SSHv2
	Telnet
	TOM (TC ROUTER Online Manager, management software from Phoenix Contact)
Data storage system	Micro SDHC card

Input data

Digital

Description of the input	Digital input
Number of inputs	4



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Voltage input signal	10 V DC 30 V DC
Switching level "0" signal	< 8 V DC
Switching level "1" signal	10 V DC 30 V DC

Output data

Signal

Output name	Digital output
Number of outputs	2
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
Single conductor/terminal point, rigid	0.14 mm² 1.5 mm²
Single-wire/terminal point, flexible	0.14 mm² 1.5 mm²
Conductor cross section, flexible [AWG]	26 16
Stripping length	9.00 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
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, HTTP(S), (S)FTP, TFTP, SCEP, RADIUS
	VPN: IPsec, OpenVPN, GRE, L2TP, PPTP
	Network Discovery: LLDP, CDP, FDP, SONMP, EDP, IRDP
Auxiliary protocols	ARP, DHCP, DNS, DynDNS, PING (ICMP), SMTP(S), NTP, SSL/TLS, STARTTLS, SMS

Wireless

VVII EIESS	
Interface description	GSM / GPRS / EDGE / UMTS / HSPA / LTE (FDD)
Frequency range	800 MHz (LTE B20)
	850 MHz (LTE B5)
	900 MHz (LTE B8)
	1800 MHz (LTE B3)
	2100 MHz (LTE B1)
	2600 MHz (LTE B7)
	850 MHz (UMTS/HSPA B5)



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	900 MHz (UMTS/HSPA B8)
	1900 MHz (UMTS/HSPA B2)
	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	≤ 150 Mbps (LTE, DL)
	≤ 50 Mbps (LTE, UL)
Number	2
Connection method	SMA (female)
	OWA (ichiale)
Antenna	50 Ω impedance SMA antenna socket
Antenna	50 Ω impedance SMA antenna socket
Antenna	50 Ω impedance SMA antenna socket Micro SIM (3FF)
Antenna SIM Interface	50 Ω impedance SMA antenna socket Micro SIM (3FF) eSIM (several profiles)
Antenna SIM Interface	50 Ω impedance SMA antenna socket Micro SIM (3FF) eSIM (several profiles) Class 12, Class B
Antenna SIM Interface GPRS	50 Ω impedance SMA antenna socket Micro SIM (3FF) eSIM (several profiles) Class 12, Class B CS1 CS4
Antenna SIM Interface GPRS EDGE	50 Ω impedance SMA antenna socket Micro SIM (3FF) eSIM (several profiles) Class 12, Class B CS1 CS4 Multislot Class 12
Antenna SIM Interface GPRS EDGE UMTS	50 Ω impedance SMA antenna socket Micro SIM (3FF) eSIM (several profiles) Class 12, Class B CS1 CS4 Multislot Class 12 HSPA 3GPP R8

Dimensions

Dimensional drawing	45 130 130 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Width	45 mm
Height	130 mm
Depth	130 mm

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
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)



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Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
provals	
CE	
Certificate	CE-compliant
лС data	
Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
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



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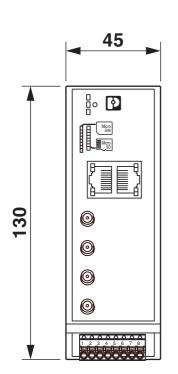
Comments	Criterion A
Voltage	10 V
Emitted interference	
Radio interference voltage in acc. with EN 55011	Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	Class B, area of application: Industry and residential
Criteria Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected
Citterion b	by the device itself.
Dunting	· · · ·



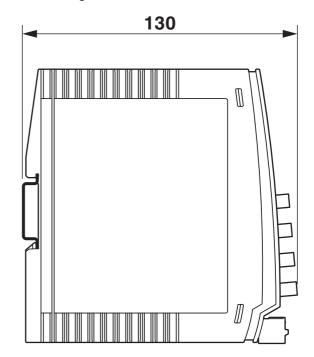
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Drawings



Dimensional drawing



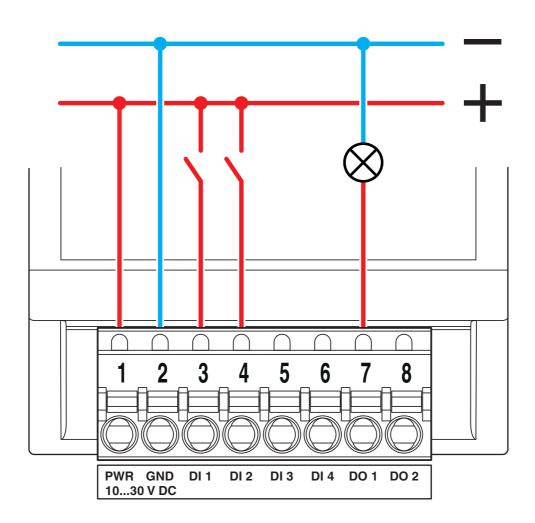
Dimensions (product version with four antenna connections)



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Connection diagram

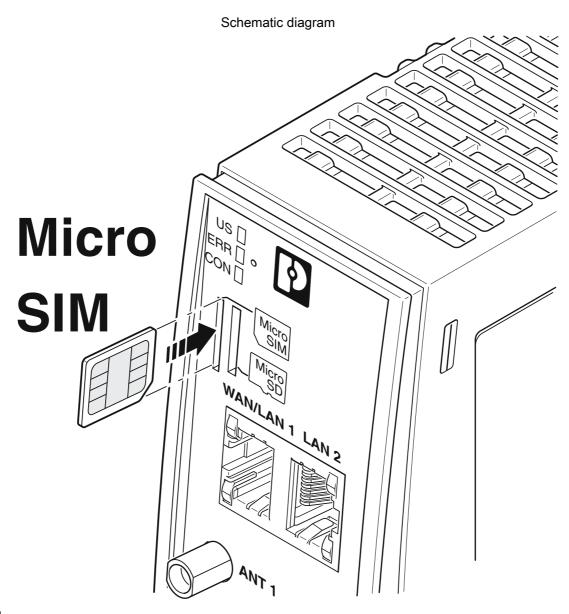


Switching inputs and outputs



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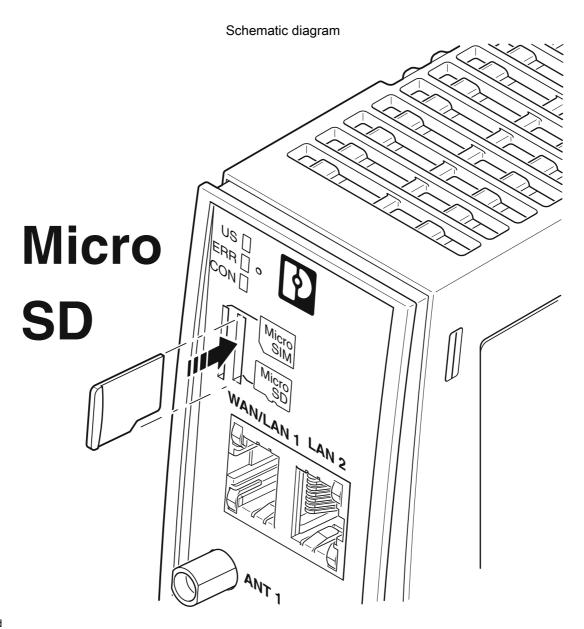


Insert SIM card



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Insert SD card



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Classifications

UNSPSC 21.0

ECLASS

19170502	
19170502	
19170502	
ETIM	
EC001478	
UNSPSC	

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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

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