

## Router - TC ROUTER 3002T-4G VZW - 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

### Your advantages


- ✓ Industrial 4G mobile router (LTE)
- ✓ Mobile high-speed Internet connection up to 150 Mbps
- ✓ Networking of Ethernet end devices via the mobile network
- ✓ Ethernet SMS gateway for easy alerting
- ✓ Two switching inputs and one switching output
- ✓ Stateful inspection firewall for dynamic filtering
- ✓ NAT table and port forwarding for direct remote access to an end device
- ✓ 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



Ethernet <sup>lte</sup>



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 212852
GTIN	4055626212852

### Technical data

#### Dimensions

Width	45 mm
Height	130 mm
Depth	126 mm

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## Technical data

### Ambient conditions

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
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20 (Manufacturer's declaration)
Noise immunity	EN 61000-6-2

### General

Electrical isolation	VCC // LTE // Ethernet // PE
Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Net weight	266 g
Housing material	Plastic
Color	gray
MTTF	383 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))
	184 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
	78 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))
Degree of pollution	2
UL, USA/Canada	Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc
	Class I, Div. 2, Groups A, B, C, D T4
Wireless licences	USA

### Power supply

Supply voltage range	10 V DC ... 30 V DC (SELV, via pluggable COMBICON screw terminal block)
Max. current consumption	1.7 A
Typical current consumption	< 200 mA (24 V DC)
	65 mA (With activated energy-saving mode)

### Serial interface

Interface 1	Ethernet interface, 10/100Base-T(X) in acc. with IEEE 802.3u
Interface	Ethernet
Operating mode	Indoor use only
No. of ports	2 (SELV)
Connection method	RJ45 socket, 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

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### Wireless interface

Interface description	LTE (FDD)
Frequency	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
SIM interface 1	1.8 volt, 3 volt
LTE	CAT4
Country support	USA

### Function

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

### 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

### 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

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### Standards and Regulations

UL, USA/Canada	Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc
	Class I, Div. 2, Groups A, B, C, D T4
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Approvals

### Approvals


#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cULus Listed			
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