

TOSI 675

High-performance Plug & Go™ connectivity device



Tosi 675 is a high-performance industrial connectivity device engineered for demanding applications in harsh environments. Its LTE, WiFi and fixed Ethernet connectivity interfaces ensures uninterrupted operation, while its robust architecture delivers the speed and reliability required for mission-critical industrial systems.

The versatile connectivity options integrate seamlessly with Tosi's state-of-the-art cybersecurity technology, enabling secure and flexible deployment scenarios. Protected by a durable aluminum alloy enclosure, its compact form factor allows for versatile mounting options in industrial settings.

The device supports advanced VLAN features. Its hybrid port capabilities enable simultaneous tagged and untagged VLAN traffic, making it ideal for complex industrial network architectures where different systems require varying levels of network isolation and access control.



Connect

Plug & Go™ deployment at any OT site - encrypted tunnels without network changes.



Visualize

Every gateway brings full OT site visibility to Tosi Control - one console, entire fleet.



Control

Built-in firewall, zero-trust, and AES-256 encryption - control who accesses what.

PERFORMANCE

- Massive VPN throughput for data consuming applications with end-to-end encryption between Tosi devices, users and servers

RELIABILITY AND COMPATIBILITY

- Dual-SIM slots for operator redundancy allows for even more reliable connectivity
- TosiOnline automatic reconnection of dropped connections
- Compatibility with all existing Tosi products

TOSI 675 TECHNICAL DATA

Product code: **TBL675** for EMEA and APAC, **TBL675US** for US and Canada

Certifications: CE, FCC, IC, RCM, CB Safety, SGS Safety Mark, Verizon

PORTS

- 1x RJ-45 WAN connection, 10/100/1000 Mb/s, auto-negotiation (MDI / MDI-X)
- 3x RJ-45 LAN connection, 10/100/1000 Mb/s, auto-negotiation (MDI / MDI-X)
- 1x USB 2.0, type A

CONNECTIONS

- 4 pin industrial DC power socket
- 9-50V DC, reverse polarity protection, voltage surge/transient protection
- 2x RP-SMA for WiFi
- 2x SMA for LTE
- 1x GNSS
- DIN rail mounting in the back and on both sides
- Maximum power consumption 16W

CONNECTION FEATURES

- 4-way WAN priority
- Proxy server support
- WAN access with static addressing or DHCP
- Network Time Protocol (NTP) server
- Automatic LAN network discovery
- LAN access with mixed static addressing and DHCP server
- Management web UI access via http/https
- Modbus server
- Static and dynamic routing
- GNSS coordinates display on UI via GPS, GLONASS, BeiDou, Galileo and QZSS
- Built-in firewall, NAT
- Up to 50 concurrent VPN connections
- Aggregate VPN throughput up to 70 Mbps
- Single VPN throughput up to 25 Mbps
- Throughput can be increased by 20% using ChaCha20 cipher
- Works in all Internet connections
- Works with dynamic, static and private IP addresses
- TosiOnline™ Automatic network recovery that recovers from most mobile operator and modem problems

4G MODULE FOR TBL675 US AND CANADA

- Cellular module: Quectel EG060K-NA
- Region: North America
- LTE Cat-6
- Up to 300 Mbps DL, 50 Mbps UL
- Dual SIM
- Frequency Bands
 - LTE FDD: B2, B4, B5, B7, B12, B13, B14, B25, B26, B29, B66, B71
 - LTE-TDD: B41

4G MODULE FOR TBL675 EMEA AND APAC

- Cellular module: Quectel EG060K-EA
- Region: EMEA/Australia/Brazil
- LTE Cat-6
- Up to 300 Mbps DL, 50 Mbps UL
- Dual SIM
- Frequency Bands
 - LTE FDD: B1, B3, B5, B7, B8, B20, B28, B32
 - LTE TDD: B38, B40, B41
 - WCDMA: B1, B3, B5, B8

WLAN

- IEEE 802.11 b/g/n, 2.4 GHz, max. 150 Mbps
- Encryptions WEP, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK mixed mode
- Frequency 2.412 – 2.462 GHz, 11 channels
- Access point or client mode
- Output power 20 dBm max

DIGITAL I/O SPECIFICATION

- 1x Digital input, 0-6 V detected as logic low, 8-30 V detected as logic high
- 1x Digital output, open collector output, max output 30 V, 300 mA
- Software configurable I/O state
- Requires separate I/O cable (accessory)

TOSI 675 TECHNICAL DATA

VLAN

- 802.1Q and 802.1ad compliancy
- Each LAN port on a separate subnet
- Inter-VLAN routing
- Access and trunk ports
- Port and IP based configuration
- Tagged/Untagged VLAN traffic
- Selective LAN access via Key
- Max 127 concurrent VLANs

PHYSICAL PROPERTIES

- Size 115 x 44 x 95 mm / 4.52" x 1.74" x 3.74"
- Protection class IP30
- Weight 456 g / 1.00 lbs (net weight article)

STORAGE TEMPERATURE

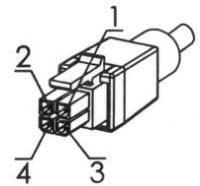
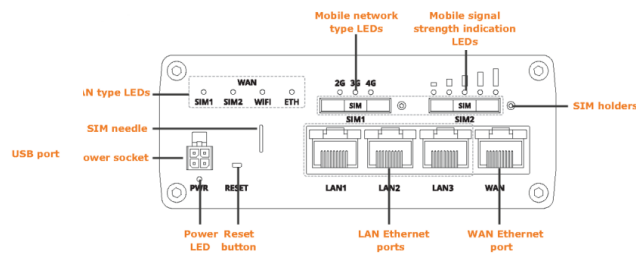
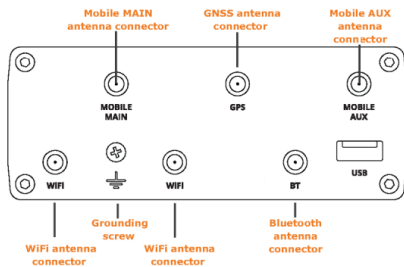
- Node -40°C ... +75°C / -40°F ... +167°F
- Power supply -20°C ... +70°C / -4°F ... +158°F

OPERATING TEMPERATURE

- Node -40°C ... +75°C / -40°F ... +167°F
- Power supply -10°C ... +40°C / 14°F ... +104°F

INCLUDED ACCESSORIES

- AC adapter for TBL675 US and Canada
 - Input 100 – 240 VAC, frequency 50/60Hz, 0.6A
 - Output 12 VDC, 1.5 A, max 18 W
 - Input connector US (Type A)
- AC adapter for TBL675 EMEA and APAC
 - Input 100 – 240 VAC, frequency 50/60Hz, 0.8A
 - Output 24 VDC, 1.0 A, max 24 W
 - Exchangeable input connector with EU (Type C), UK (Type G), US (Type A), AU (Type I)
- 2x LTE antennas (swivel, SMA male)
- 2x WiFi antennas (swivel, RP-SMA male)
- 1x GNSS antenna (adhesive, SMA male, 3 m cable)
- *1x Bluetooth antenna (*optionally included, not supported in software)
- Power cable
 - Input 4-way open wire
 - Output connector 4-pin, 3 mm pitch
 - Cable material isolation 1.5 kV
 - Temperature range -20°C ... +80°C / -4°F ... +167°F
 - Length 1.5 m



1. Power / +VDC
2. GND / 0 VDC
3. Digital Input
4. Digital Output

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