Connect, Visualize, Control.
Secure OT that scales.

DATASHEET

TOSI 695

5G enabled Plug & Go™ connectivity device



Tosi® 695 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

- Built-in 5G/LTE modem with ultra-fast cellular speeds and dependable connections
- Dual-SIM slots for operator redundancy allows for even more reliable connectivity
- TosiOnline™ automatic reconnection of dropped connections

TOSI 695 TECHNICAL DATA

Product code: **TBL695**
Certifications CE, SGS Safety Mark

PORTS

- 1x RJ-45 WAN connection, 10/100/1000 Mb/s, auto-negotiation (MDI / MDI-X)
- 4x 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
- 4x SMA for 5G/LTE
- 1x GNSS
- DIN rail mounting slot in the back and on both sides
- Maximum power consumption 18W

CCONNECTION 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 routes
- 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
- 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

5G/LTE MODULE

- Cellular module: Quectel RG501Q-EU
- Region: EMEA/APAC/Brazil (excluding China)
- Sub-6 GHz
- 5G SA Sub-6 up to 2.1 Gbps DL, 900 Mbps UL
- 5G NSA Sub-6 up to 3.3 Gbps DL, 600/650 Mbps UL
- LTE-FDD up to 2 Gbps DL, 200 Mbps UL
- Dual SIM single standby
- All antennas are equal
- Frequency Bands
- 5G NR: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n77, n78
- LTE-FDD: B1, B3, B5, B7, B8, B20, B28, B32
- LTE-TDD: B38, B40, B41, B42, B43
- WCDMA: B1, 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 SPECIFICATIONS

- 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)

VLAN

- 802.1Q and 802.1ad compliancy
- Each LAN port on a separate subnet
- Inter-VLAN routing
- Access and trunk ports
- Tagged/Untagged VLAN traffic
- Selective LAN access via Key

TOSI 695 TECHNICAL DATA

PHYSICAL PROPERTIES

- Size 132 mm x 44 mm x 95 mm / 4.52” x 1.74” x 3.74”
- Protection class IP30
- Weight 533 g / 1.17 lbs (net weight article)

STORAGE TEMPERATURE

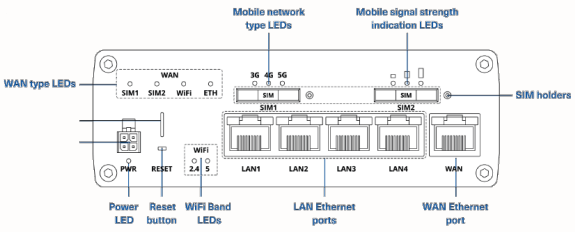
- Node -40°C ... +75°C / -40°F ... +167°F
- Power supply -20°C ... +70°C / -4°F ... +158°F

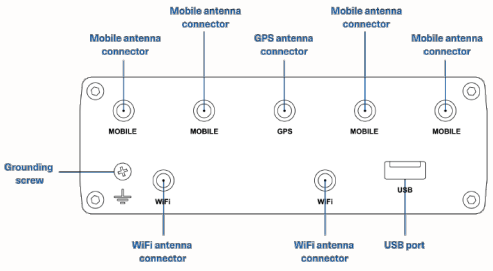
OPERATING TEMPERATURE

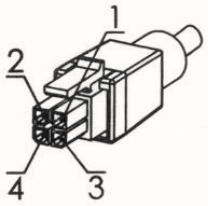
- Node -40°C ... +75°C / -40°F ... +167°F
- Power supply -10°C ... +40°C / 14°F ... +104°F

INCLUDED ACCESSORIES

- AC adapter
  - 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)
- 4x LTE/5G antennas (swivel, SMA male)
- 2x WiFi antennas (swivel, RP-SMA male)
- 1x GNSS antenna (adhesive, SMA male, 3 m cable)
- DIN rail mount
- 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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