Connect, Visualize, Control.
Secure OT that scales.

DATASHEET

TOSI 610

Reliable and powerful Plug & Go™ connectivity device



Tosi 610 is a high-performance industrial connectivity device engineered for demanding applications in harsh environments. Its fixed Ethernet connectivity interface 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

- Four Gigabit Ethernet ports deliver speeds up to 1000 Mbps
- Provided DIN rail clip ensures firm installation on any industrial application
- Compatibility with all existing Tosi products

TOSI 610 TECHNICAL DATA

Product code: **TBL610**

Certifications: CE, RCM, CB Safety, SGS Safety Mark.

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
- DIN rail mounting in the back
- Maximum power consumption 6W

CONNECTION FEATURES

- 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
- 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

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)

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

TOSI 610 TECHNICAL DATA

PHYSICAL PROPERTIES

- Size 115 x 32 x 95 mm / 4.52” x 1.26” x 3.74”
- Protection class IP30
- Weight 345 g / 0.76 lbs (net weight article)

STORAGE TEMPERATURE

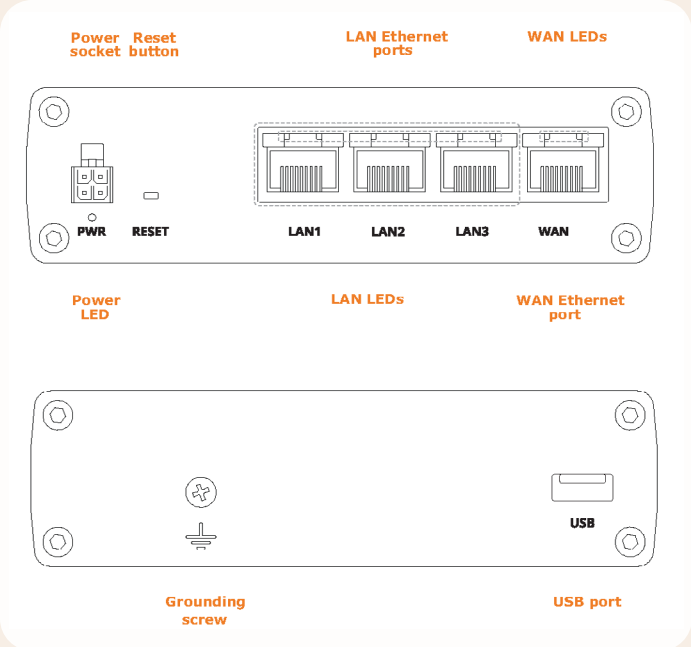
- Node -40°C ... +75°C / -40°F ... +167°F
- Power supply -20°C ... +70°C / -4°F ... +158°F

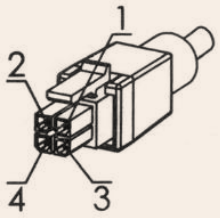
OPERATING TEMPERATURE

- 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)
- 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 I nput
4. Digital Output

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