



## Connect the Dots with Tosibox



Do it Easily.  
Build and manage secure OT infrastructure in minutes



Do it Automatically.  
Connect anything anywhere all automated



Do it Cybersecurely.  
You own the data and it's always encrypted.

# TOSIBOX® 650

All-around Plug & Go™ connectivity device

TOSIBOX® 650 is a high-performance industrial connectivity device engineered for demanding applications in harsh environments. Its 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 Tosibox'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.

### Performance

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

### Reliability and compatibility

- Integrated WiFi for wireless devices on site
- TosiOnline™ automatic reconnection of dropped connections
- Compatibility with all existing Tosibox products

# TOSIBOX® 650 Technical Data

Product code TBL650

Certifications CE, FCC, IC, RCM, 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
- 2x RP-SMA for WiFi
- DIN rail mounting slot in the back and on both sides
- Maximum power consumption 9W

## Connection features

- 2-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
- 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

## 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 (TB600PAC1 or TB600PAC2)

## 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

# TOSIBOX® 650 Technical Data

## Physical properties

- Size 115 mm x 32 mm x 95 mm / 4.52" x 1.26" x 3.74"
- Protection class IP30
- Weight 355 g / 0.78 lbs (net weight article)

## Storage Temperature

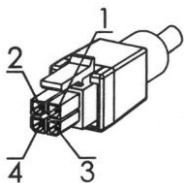
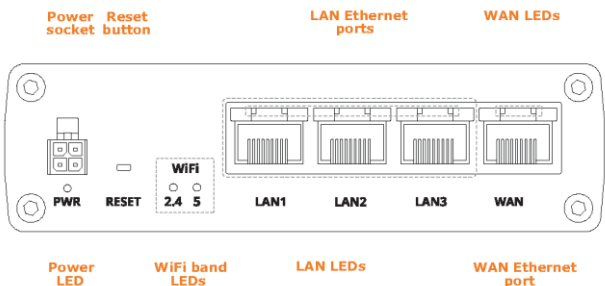
- Node -40°C ... +75°C / -40°F ... +167°F
- Power supply -20°C ... +70°C / -4°F ... +158°F

## 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 V AC, frequency 50/60Hz 0,6A, Output 12.0 V, 1.5 A, max 18 W
- 2x WiFi antennas (swivel, RP-SMA male)
- \*1x Bluetooth antenna (\*optionally included, not supported in software)
- Power plug with contact terminals
- DIN rail mount
- Ethernet cable (1.5 m)



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

