






## Advantages of TOSIBOX

- 
**Simple**  
 Build and manage secure OT infrastructure in minutes
- 
**Secure**  
 Tested & audited security
- 
**Modular**  
 Unlimited expandability and flexibility
- 
**Timeless**  
 Deals with legacy and future systems
- 
**Unique**  
 Globally patented point-to-point connection



# TOSIBOX® 650

## All-around Plug & Go™ connectivity device

TOSIBOX® 650 is ideal performer in enterprise solutions. The versatile connectivity options, utilized in conjunction with leading edge Cyber security technology from Tosibox enable diverse application scenarios. The durable aluminium alloy shell and small form factor is ideal for rugged mounting conditions.

Extended IP30 Rating and operating temperature provides installation and use in demanding environmental conditions.

Tosibox 600 series contains devices for all connectivity scenarios and meets the most demanding operating conditions. Bringing connectivity to those hard to reach locations has never been this easy.

### Main features

#### Performance

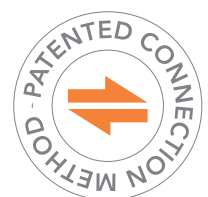
- High VPN throughput, end-to-end encryption between TOSIBOX devices, users and servers

#### Reliability

- Integrated WiFi as connectivity method or access point for wireless devices on site
- TosiOnline™ automatic reconnection of dropped connections

#### Industrial design

- Robust aluminium alloy shell, DIN rail attachment
- Extended IP30 rating
- Operating temperature -40 °C ... +75 °C / -40 °F ... +167 °F



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# TOSIBOX® 650 Technical Data

## Product codes

TBL650EU, TBL650UK, TBL650AU, TBL650US

## Ports

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

## Connections

- 4 pin industrial DC power socket
- 9-50V DC, reverse polarity protection, voltage surge/transient protection
- 2 x RP-SMA for WiFi
- DIN rail mounting slot in the back
- 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
- Static routes
- Works in all Internet connections (operator independent)
- Firewall friendly
- Works with dynamic, static and private IP addresses
- Built-in firewall, NAT
- Up to 50 concurrent VPN connections
- VPN throughput up to 70 Mbit/s
- TosiOnline™ Automatic network recovery that recovers from most mobile operator and modem problems

## 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

## I/O specifications

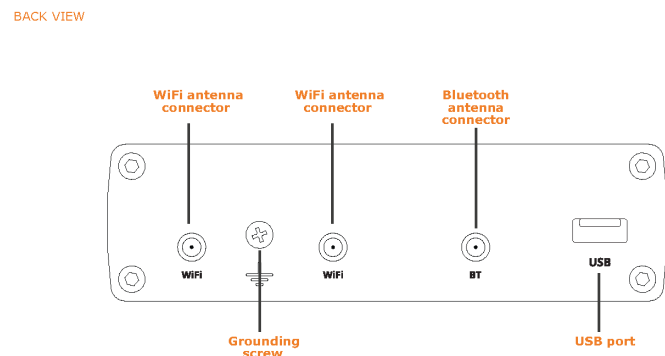
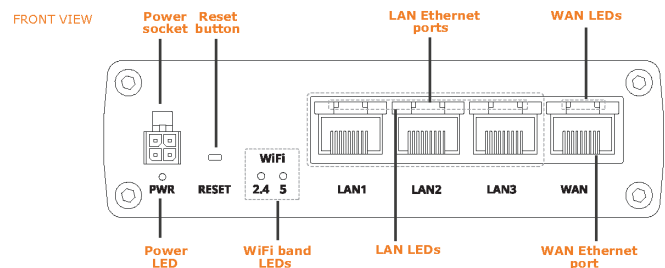
- 1 x Digital input, 0 - 6 V detected as logic low,
- 8 - 30 V detected as logic high
- 1 x Digital output, open collector output, max output 30 V, 300 mA
- Software configurable I/O state
- Requires separate I/O cable (TB600PAC1 or TB600PAC2)

## Included accessories

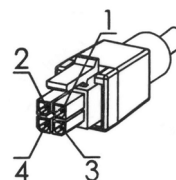
- Power supply unit
  - AC adapter - Input 100 – 240 V AC, frequency 50/60Hz 0,6A, Output 12.0 V, 1.5 A, max 18 W
- 2 x WiFi antennas (swivel, RP-SMA male)
- \*1 x Bluetooth antenna (\*optionally included, not supported in software)
- Power plug with contact terminals\* (\*Shipments starting from 2022-04-19)
- Ethernet cable (1.5 m)
- DIN rail mount

## Physical properties

- 115 x 32.2 x 95.2 mm / 4.52" x 1.26" x 3.74" (W x H x L)
- Protection class IP30
- Weight 355 g / 0.78 lbs (net weight article)
- Storage temperature -40 °C ... +75 °C / -40 °F ... +167 °F
- Operating temperature -40 °C ... +75 °C / -40 °F ... +167 °F



Power plug



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

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TOSIBOX

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