



## Advantages of TOSIBOX®



### Simple

Build and manage secure IoT 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® Lock 500

### The next generation Plug & Go™ connectivity device

TOSIBOX® Lock 500 is a high-end connectivity device bringing unprecedented possibilities for customers to manage their operations and to build new IoT solutions. The Lock 500 is ideal for demanding industrial environments and opens up new opportunities in security and office networking sectors.

The new Lock 500 is compatible with all existing TOSIBOX® products. Modularity of the products enables easy and fast extension of networks.

#### Main features

##### High performance

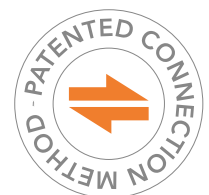
- Massive VPN throughput for data consuming applications, end-to-end encryption between TOSIBOX® devices
- Up to 50 concurrent VPN connections

##### Reliability

- Integrated WiFi as connectivity method or access point for wireless devices on site.
- Built-in LTE modem (optional), with two modem variants covering most of the globe - no external modem needed
- Dual-SIM slots for operator redundancy allows for even more reliable connectivity
- TosiOnline™ automatic reconnection of dropped connections

##### Industrial design

- 2/2 x Digital I/O for controlling and monitoring of Lock status
- Robust and fanless enclosure, integrated DIN rail bracket and industrial screw-on DC power connector



# Lock 500 Technical Data

## Product codes:

TBL5, TBL5PS, TBL5iA, TBL5iAPS, TBL5iB, TBL5iBPS

## Ports

- 1 x USB 2.0, type A
- 1 x RJ-45 WAN connection, 10/100 Mb/s, auto-negotiation (MDI / MDI-X)
- 3 x RJ-45 LAN connection, 10/100 Mb/s, auto-negotiation (MDI / MDI-X)
- LAN3 can be assigned as Service connection, 10/100 Mb/s, auto-negotiation (MDI / MDI-X)
- Ethernet port isolation: 1500 Vrms 1 minute (when device frame connected to system ground potential)

## Connections

- 12-48V DC (+/-20%), reverse polarity protected
- Device frame connector
- 2 x WiFi antenna connector, RP-SMA
- (TBL5i\*) 2 x LTE antenna connectors, SMA
- 2 x Digital Input, 2 x Digital Output, 24V DC out
- DIN rail attachment (back)
- Maximum power consumption 10W

## WAN connection features

- Independent of operating systems
- Works in all Internet connections (operator independent)
- Supports HTTP proxy servers with and without authentication
- 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

## Mobile connection features

- Supported External USB modem: TOSIBOX® 4G modem (TB4GM2EU, TB4GM2AU).
- TosiOnline™ Automatic network recovery that recovers from most mobile operator and modem problems

## TBL5iA\*

- Region: Americas/EMEA
- LTE Cat-6
- Up to 300 Mbps DL, 50 Mbps UL
- Frequency Bands (4G LTE): B1, B2, B3, B4, B5, B7, B12, B13, B20, B25, B26, B29, B30, B41
- Dual SIM

## TBL5iB\*

- Region: APAC
- LTE Cat-6
- Up to 300 Mbps DL, 50 Mbps UL
- Frequency Bands (4G LTE): B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41
- Dual SIM

## WLAN

- IEEE 802.11 b/ g/ n, max. 150 Mbps
- WEP, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK Mixed, WPA-EAP, WPA2-EAP TKIP/AES encryption
- Frequency 2.412 – 2.462 GHz, 11 channels
- Output power 20 dBm max

## Included accessories

- RJ-45 Cat5e Ethernet cable
- 2 x WiFi antennas, 2 dBi
- I/O connector plug
- Power connector plug
  - TBL5\*PS: AC adapter - Input 100 – 240 V AC, frequency 47 – 63 Hz, Output 12.0 V, 1.6 A, max 19.2 W. EU, UK, AU and US power socket
  - TBL5\*PS: DC feed cable
  - TBL5iA\*: EMEA/Americas modem
  - TBL5iB\*: APAC Modem
  - TBL5i\*: 2 x LTE antennas

## I/O specifications

- 2 x digital inputs, galvanic isolation, current limited to <math>\leq 5\text{mA}</math>, Voltage 0 - 32V nom.  $\rightarrow 12\text{V}$  is interpreted as '1', 0-5V is '0'
- 2 x digital outputs, 24V DC, 50 mA current shared by the outputs and 24V DC out
- 1 x 24V DC out, 50 mA current shared by 24V DC out, output 1 and output 2
- Software Configurable I/O state

## Physical properties

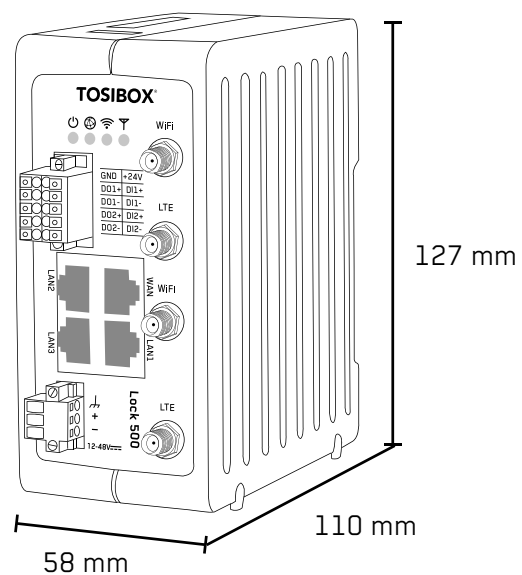
- 110 mm x 58 mm x 127 mm / 4.33" x 2.28" x 5.0" (L x W x H)
- Storage temperature -40 °C ... +70 °C / -40 °F ... +158 °F
- Protection class IP20

## TBL5\*

- Weight 495 g / 1.09 lbs (net weight article)
- Operating temperature -20 °C ... +60 °C / -4 °F ... +140 °F

## TBL5i\*

- Weight 505 g / 1.11 lbs (net weight article)
- Operating temperature -20 °C ... +60 °C / -4 °F ... +140 °F



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**TOSIBOX**<sup>®</sup>  
Simplifying IoT