TOSIBOX® Lock 250 and TOSIBOX® Lock 210

Connectivity meets security

TOSIBOX® Lock 250 is an efficient and robust industrial router with an integrated WiFi. TOSIBOX® Lock 210 works in all LAN networks. Both devices serve as endpoints for secure remote connections in operational (OT) networks.

Lock 250 and Lock 210 are compatible with all existing TOSIBOX® products. Modularity of the products enables easy and fast extension of networks.

Main features

Efficient performance
- 30 Mbs VPN throughput and end-to-end encryption from Key to Lock, Lock to Lock or Lock to (Virtual) Central Lock
- Up to 20 concurrent VPN connections
- For Lock 250, integrated WiFi as connectivity method or access point for wireless devices on site
- TosiOnline™ feature for automatically reconnecting dropped connections

Industrial design
- 2/2 x Digital I/O for controlling and monitoring of Lock status
- Industrial design: robust and fanless enclosure, integrated DIN rail bracket and industrial screw-on DC power connector
- Operational temperature -20 ℃ … +60 ℃ / -4 ˚F … +140 ˚F

Lock 250 and Lock 210 Technical Data

Product codes:
TBL25, TBL21

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 Female (Lock 250 only)
- 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 20 concurrent VPN connections
- VPN throughput up to 30 Mbit/s

Mobile connection features
- Supported External USB modem: TOSIBOX® 4G modem (TB4GM2EU, TB4GM8EU, TB4GM2AU)
- TosiOnline™ – Automatic network recovery that recovers from most modem problems

WLAN (for Lock 250 only)
- IEEE 802.11 b/g/n, max. 150 Mbps
- Encryptions WEP, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK mixed mode
- Frequency 2.412 – 2.462 GHz, 11 channels
- Output power 20 dBm max
- RJ-45 Cat5e Ethernet cable
- 2 x WiFi antennas, 2 dBi (for Lock 250 only)
- I/O connector plug
- Power connector plug
- 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

I/O specifications
- 2 x digital inputs, galvanic isolation, current limited to ←5mA, Voltage 0 - 32V nom. →12V 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)
- Weight 495 g / 1.09 lbs (net weight article)
- Operating temperature -20 °C … +60 °C / -4 °F … +140 °F
- Storage temperature -40 °C … +70 °C / -40 °F … +158 °F
- Protection class IP20

Included accessories
- RJ-45 Cat5e Ethernet cable
- 2 x WiFi antennas, 2 dBi (for Lock 250 only)
- I/O connector plug
- Power connector plug
- 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

1. SIM card slot not in use
2. USB Port for matching and USB Modem
3. Reset button for Service Port activation only
4. Digital I/O -Connection

Ethernet Connections:
5. LAN2 Port
6. WAN Port
7. LAN3 Port*
8. LAN1 Port
9. Power Connection
10. WiFi Antenna Port 1 (Lock 250 only)
11. WiFi Antenna Port 2 (Lock 250 only)
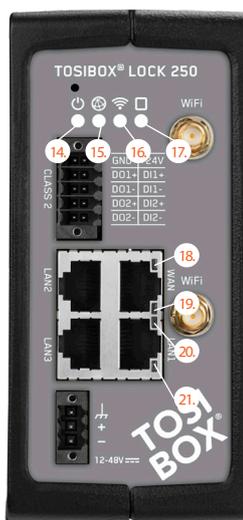
LED indicators:
14. Power
15. Internet
16. WiFi (Lock 250 only, LED not use in Lock 210)
17. Not in use

Ethernet Port Leds:
18. LAN2
19. WAN
20. LAN3
21. LAN1

* LAN3 Port can be configured as a Service Port