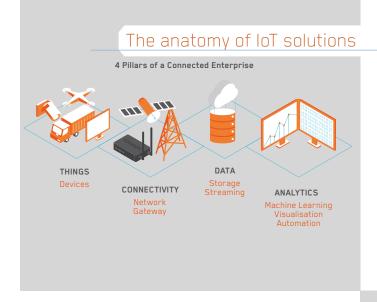


TOSIBOX[®] Simplifying IoT

Secure IoT connectivity, remote maintenance and network management





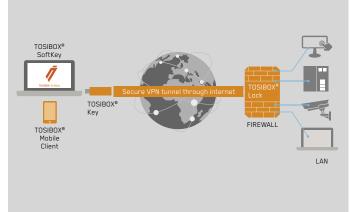
We believe that success in the era of the Internet of Things is simply a matter of connections, and connectivity is the core of IoT. Today the need for reliable connectivity is greater than ever: By 2020 more than half of major new business processes and systems will incorporate some elements of IoT.

Secure connectivity is essential for remote access, remote maintenance, continuous monitoring, real-time data collection and data logging. TOSIBOX® helps you to harness IoT for your business.

With TOSIBOX[®] you can create a fully <u>secure remote</u> connection within minutes, and without special IT skills. You can build and manage networks and IoT infrastructures with the easily expandable and timeless solution.

We offer centralized real-time management of your devices and access control that help you generate cost savings. With TOSIBOX[®] adding new devices or users into the network is simply drag and drop, whereas with oldfashioned IT networks completing the same task takes days or weeks.

How TOSIBOX[®] Plug & Go[™] works





Functions	TOSIBOX [®] Lock 100	TOSIBOX [®] Lock 150	TOSIBOX [®] Lock 200	
TOSIBOX® Plug & Go™ Technology	Yes	Yes	Yes	
Mounting options	DIN rail mounting at bottom	DIN rail mounting at bottom	DIN rail mounting on three sides	
Power input	12 - 24V DC, ±25%	12 - 24V DC, ±25%	8 – 27 V DC ±10%, with cable anchor	
3G / 4G USB modem support	Yes	For TOSIBOX [®] modems	Yes	
WAN port	10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s	
LAN ports	3 x 10/100 Mbit/s, bridged	3 x 10/100 Mbit/s, bridged	3 x 10/100 Mbit/s, bridged	
VPN throughput	Up to 6 Mbit/s	Up to 10 Mbit/s	Up to 15 Mbit/s	
VPN encryption	Blowfish 128 bit CBC, AES 128/192/256 bit CBC	Blowfish 128 bit CBC, AES 128/192/256 bit CBC	Blowfish 128 bit CBC, AES 128/192/256 bit CBC	
VPN connection authentication	PKI, 3072 bit RSA	PKI, 3072 bit RSA	PKI, 3072 bit RSA	
Concurrent VPN connections	Max 10	Max 10	Max 50	
Supported platforms	N/A	N/A	N/A	
TosiOnline™ – automatic connection recovery functionality	Yes	Yes	Yes	
PoE functionality	Νο	No	PoE in and PoE out: 27 V / 580 mA max	
Approvals	CE, FCC	CE, UL, FCC, ISED	CE, FCC, UL	
WLAN	802.11b/g/n	802.11b/g/n	No	
Measurements (LxWxH)	132 mm x 99 mm x 35.5 mm / 5.2" x 3.9" x 1.39"	132 mm x 99 mm x 35.5 mm / 5.2" x 3.9" x 1.39"	140 mm x 36 mm x 125 mm / 5.51" x 1.41" x 4.92"	
Power consumption	Max 7.2 W	Max 7.2 W	Max 7 W	
Product code	TBL1	TBL15	TBL2	

Functions	TOSIBOX®	TOSIBOX® SoftKey	TOSIBOX® Mobile Client
TOSIBOX [®] Plug & Go™ Technology	Yes	Yes	Yes
Key role	Master Key, Backup Key, Sub Key	Sub Key	Sub Key
Cryptographic key size and type	2048 bit RSA, hardware-based	4096 bit RSA	2048 bit RSA
Data encryption	TLS, Blowfish-128-CBC, AES-128- CBC, AES-256-CBC	TLS, Blowfish-128-CBC, AES-128- CBC, AES-256-CBC	TLS, Blowfish-128-CBC, AES-128-CBC, AES-256-CBC
VPN connection type	Layer 2 / Layer 3 (OpenVPN)	Layer 2 / Layer 3 (OpenVPN)	Layer 3 (OpenVPN on Android, IPsec/IKEv2 on iOS)
Mobile Client for Android and iOS	Yes (1 license incl.)	No	N/A
Two-factor authentication	Yes	Yes	Yes
Product code	ТВК2	TBSKL1 TBSKL5 TBSKL10	TBMC1 TBMC5 TBMC10 CertπoN Google Play Coogle Play

TOSIBOX [®] Lock 500	TOSIBOX® Central Lock	TOSIBOX [®] Virtual Central Lock*	
Yes	Yes	Yes	
DIN rail attachment at back	19″ rack mounting, rails included	N/A	
12-48V DC (+/-20%), reverse polarity protected	90 - 264 V AC	N/A	
Internal LTE (option)	No	N/A	
10/100 Mbit/s	l Gbit/s	One required, dependent on virtual platform	
3 x 10/100 Mbit/s	4 x 1 Gbit/s, independent	One or more, dependent on virtual platform	
Up to 70 Mbit/s	Up to 700 Mbit/s	Dependent on virtual platform	
Blowfish 128 bit CBC, AES 128/192/256 bit CBC	Blowfish 128 bit CBC, AES 128/192/256 bit CBC	Blowfish 128 bit CBC, AES 128/192/256 bit CBC	
PKI, 3072 bit RSA	PKI, 3072 bit RSA	PKI, 3072 bit RSA	
Max 50	Max 4000	Dependent on virtual platform and license	
N/A	N/A	VMWare ESXi, Microsoft Hyper-V, Linux KVM	
Yes	N/A	N/A	
No	No	No	
CE, UL, FCC, ISED	CE, FCC, UL	N/A	
802.11b/g/n	No	No	
110 mm x 58 mm x 127 mm / 4.33" x 2.28" x 5.0"	570 mm x 430 mm x 43 mm/ 22.44" x 16.93" x 1.69"	N/A	
Max 10 W	Max 250W	N/A	
TBL5, TBL5PS, TBL5iA, TBL5iAPS, TBL5iB, TBL5iBPS, TBL5iC, TBL5iCPS	TBCL1	TBVCL1	

* Please see all requirements on Virtual Central Lock datasheet

Patented security

TOSIBOX[®] is globally audited, patented and performs at the highest security levels in the industry. It's not a cloud service, but a direct VPN tunnel between the physical devices. Only trusted devices can access the network.

All of the users and keys are managed from a single console. So you can be sure that your network and data will remain encrypted and secure.



Accessories	
DIN rail mounting bracket	TBMBD1
AC Adapter (EU only)	TBPS1
AC Adapter (US, UK, EU, JAP, AUS)	TBPS2

TOSIBOX[®] solution built for your needs



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Simple

Build and manage secure IoT infrastructure in minutes

- Easy configuration-free Plug & Go[™] implementation without special IT skills
- Create and manage access groups: Limit access, add new users and objects simply by drag and drop.
- IT/OT convergence solved
- "Self-healing" network: TosiOnline[™] automatically reconnects dropped connections.

Timeless

Deals with legacy and future systems

- Technology makes the legacy hardware and future systems compatible.
- Internet connection, operator, and device agnostic
- Works both in internal and external networks.

Secure Tested & audited security

- Technology based on two-factor authentication, automatic security updates and latest encryption technology
- One TOSIBOX[®] Lock device protects all devices behind it.

Modular

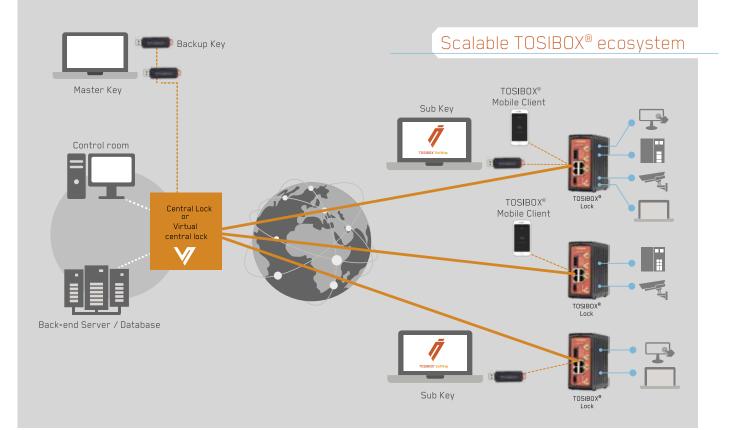
Unlimited expandability and flexibility

- Easily extend the network when you need to.
- Grow from one object to thousands, without changing the system.

Unique

Globally patented point-to-point connection

- Point-to-point data flow: data streams directly between two modules, no cloud
- Two-way communication offers the benefits of IoT plus remote maintenance with one technology.
- Globally awarded solution



TOSIBOX

"If a tourist can fly across oceans without knowing anything about airplanes, why can't people enjoy the benefits of technology without having an IT degree?"

Veikko Ylimartimo, Tosibox founder

We have taken connectivity and made it simple. Our people, technology and software have created a new standard for secure IoT connectivity, remote maintenance and network management. The award-winning TOSIBOX® products are manufactured in Finland and used worldwide.

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