

TOSIBOX®

Version 1.4



LOCK & KEY USER MANUAL

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1. TOSIBOX® OVERVIEW

Tosibox was born from the idea that secure remote access doesn't have to be complicated, expensive or time-consuming.

TOSIBOX® offers a new, automatic way to establish a remote connection easily, quickly and securely. TOSIBOX® is the world's only remote access device with the patented Plug & Go™ technology.

The solution consists of Key and Lock devices that are taken into use by matching the Key physically using the USB port of the Lock.

TOSIBOX® Locks and Keys that have been matched together will discover each other over the Internet and on separate local networks regardless of how they are connected to the Internet. This allows the control of network devices in the Lock's LAN network.

Tosibox delivers fast and easy remote access to your machines and devices anywhere you can establish a network connection.

TECHNICAL SUPPORT:

support@tosibox.com

FINLAND

+358 44 744 0065

Opening hours:

from 8 am till 4 pm Mon – Fri (UTC+2 time zone)

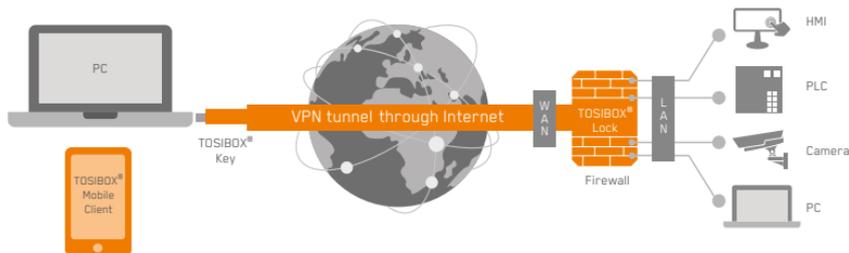
GLOBAL

+358 44 738 1778

Opening hours:

from 8 am till 4 pm Mon – Fri (UTC+2 time zone)

For country specific Technical Support contact details go to:
<http://www.tosibox.com/support>



2. TOSIBOX® GLOSSARY

KEY

An intelligent USB-connected device that contains a secure cryptoprocessor. The Key is used to establish a secure connection to the Lock.

SUB KEY

An additional Key that has restricted access rights.

BACKUP KEY

A duplicated backup copy of the Key. All matched Keys and Locks are automatically synchronized between the original Key and the Backup Key.

LOCK

Device that accepts remote connections from matched Keys and creates private and secure access to connected network devices. The network devices that are connected to the Lock's LAN port are automatically found. The Lock automatically distributes IP addresses for the Keys, Sub Keys and the network devices connected to LAN port(s) of the Lock. The Lock can also control network devices with fixed IP addresses.

SUB LOCK

A Lock that has been converted to Sub Lock mode of operation. When connecting two Locks to each other, one must be in Sub Lock mode of operation.

LOCK 100 SALES PACKAGE CONTENT



TOSIBOX® Lock



AC Adapter *)



USB Cable



DC feed plug



DIN rail Bracket



Ethernet Cable



Antennas (2)

LOCK 200 SALES PACKAGE CONTENT



TOSIBOX® Lock 200



AC Adapter *)



USB Cable



DC Feed Plug



Cable Saddle



Rubber Feet



Ethernet Cable



DIN Rail Bracket

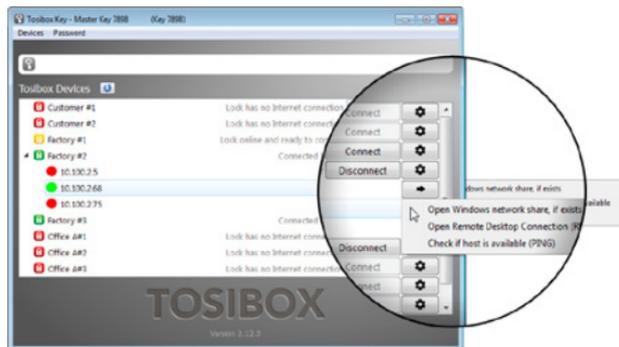
*) AC Adapter model is subject to change according to the market area.

3. TOSIBOX® KEY, LOCK, USER INTERFACES, MOBILE CLIENTS OVERVIEW

3.1 TOSIBOX® KEY

An intelligent USB-connected device that contains a secure cryptoprocessor. The Key is used to establish a connection with the Lock.

All TOSIBOX® Keys and Locks are interoperable.



Key user interface (installed from the Key device). In the image you can see TOSIBOX® Lock devices which are matched with the TOSIBOX® Key and the network devices connected to each TOSIBOX® Lock.

Key 100

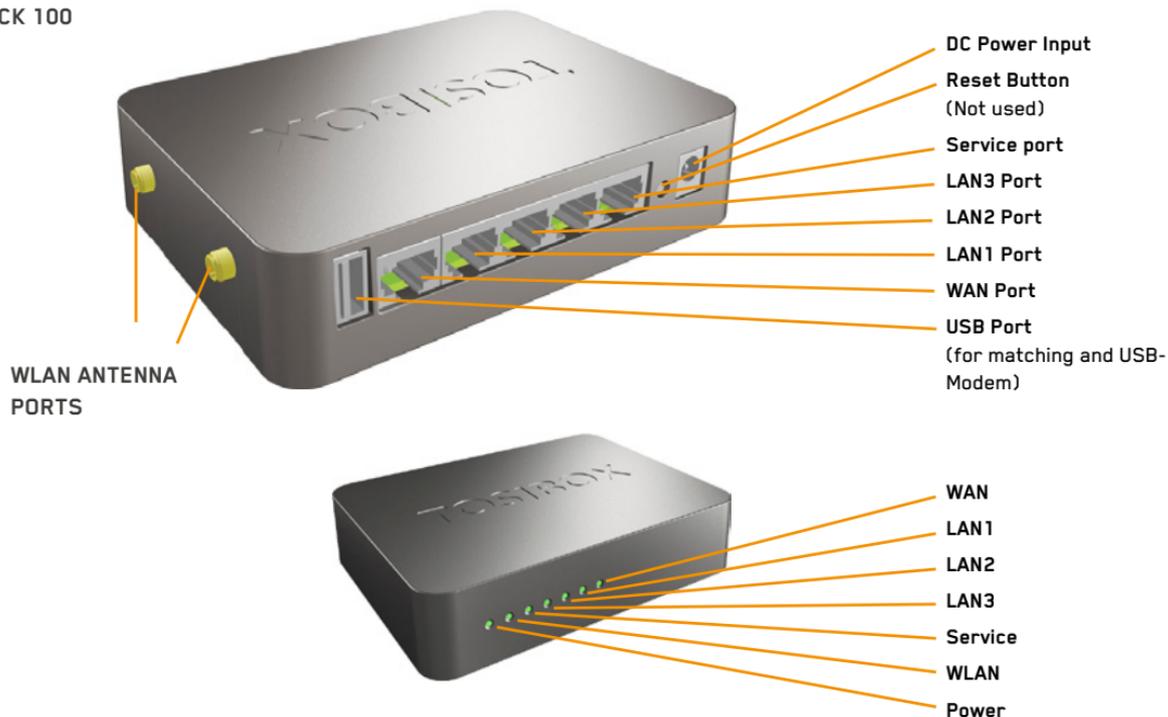


Key 200



3.3 LOCK CONNECTIONS

LOCK 100



LOCK 200



LAN3 Port

LAN2 Port

LAN1 Port

Service port

WAN Port

Reset Button
(Not used)

DC Power Input



USB Port
(for matching and USB-
Modem)

3.4 USER INTERFACE – LOCK

The screenshot displays the TOSIBOX user interface for a lock device. The title bar reads "Toronto - TOSIBOX® Lock 100 ID-000011e3cc6" and includes a "Login" button. The interface is divided into several sections:

- Status:** Displays general information such as "INTERNET CONNECTION OK (WAN port)", "WAN PORT IP: 10.159.12.149", "IFSB MODEM IP: /", "WLAN CLIENT IP: /", "LAN IP: 10.11.9.3", "LAN DHCP SERVER: ON", "LAN STATIC IP RANGE: 10.11.9.1 - 10.11.9.2, 10.11.9.4 - 10.11.9.9, 10.11.9.60 - 10.11.9.254", "LAN DHCP IP RANGE: 10.11.9.10 - 10.11.9.59", "WLAN: OFF", "MODE: LOCK", and "SOFTWARE VERSION: V3.1.4".
- TOSIBOX® devices:**
 - LOCKS AND SUB LOCKS:** Shows a single entry: "TOSIBOX® Lock 100 ID-000011e3cc6" with a green status icon.
 - KEYS:** Shows a single entry: "Key 14683" with a green status icon.
- Network devices:** A table listing connected devices:

NAME	IP	MAC
10.11.9.3	10.184.59.9	10.5a.b9.0c.be.55
ipcam_000DC506C33210	184.59.41	00.0a.c5.05.c3.37

The TOSIBOX logo is centered at the bottom of the interface.

Status bar shows general information.

Locks and Keys
Green: Connected
Red: Disconnected

Remotely controlled devices
Green: Connected
Red: Disconnected

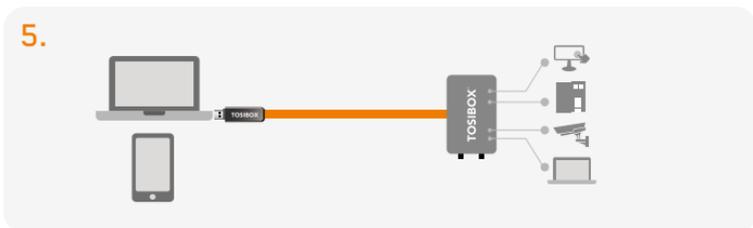
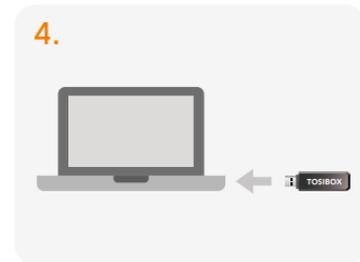
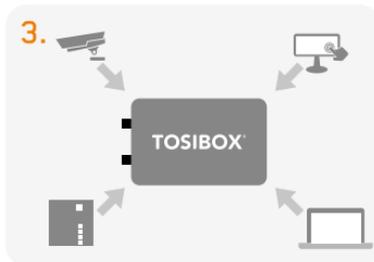
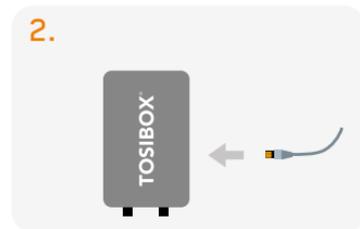
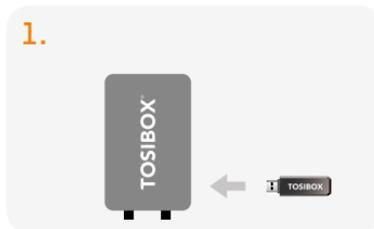
Details of the remotely controlled devices

Login using "admin" user.
Password can be found on the bottom of the Lock

4. INSTRUCTIONS FOR TOSIBOX® KEY AND LOCK SETUP

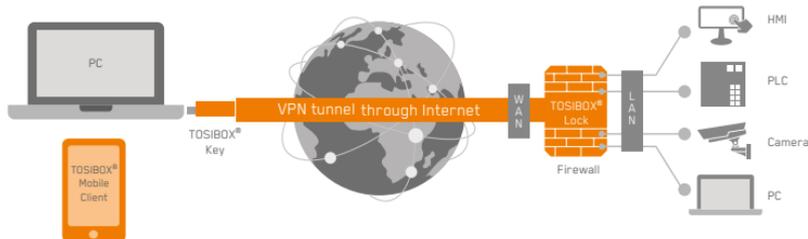
THE FIRST DEPLOYMENT

1. Make sure the Lock is powered before proceeding to matching the Key with the Lock. Insert the Key into the USB port of the Lock. When the LED on the Key stops blinking, the matching is complete (approximately 10 seconds). Remove the Key from the Lock. You can also match additional Locks to the same Key.
- 2 - 3. Connect the Lock to your network according to your use case. Remember to make sure that the Lock has a working internet connection.
4. Connect the Key to your computer and install the Key software. Follow the section "Deploying the Key".
5. The TOSIBOX® connection is now ready to be used to control and monitor remote devices.



5. TOSIBOX® LOCK

5.1.1 DEPLOYING THE LOCK IN "LOCK MODE"



With its factory default settings, the Lock is connected to the Internet via its WAN port or a USB modem which can be connected to the USB port of the Lock. In this mode, the Lock creates its own protected local network for the connected devices. In this configuration, only devices that are connected to the Lock by cable or via WLAN access point are accessible with the Key.

Notes:

- See "USB Modem settings for the lock" (page 15)
- to connect a USB modem to the Lock's USB port.
- If the Lock is connected to a DHCP enabled network via any of its LAN ports (LAN1, LAN2 or LAN3) the Lock's own LAN functionality can be restored by resolving any DHCP conflicts by removing improper LAN connections to the Lock.

CONNECTING NETWORK DEVICES TO THE LOCK

A) Connecting device(s) that use dynamic IP addresses (DHCP)

1. Devices with a DHCP client enabled will automatically connect to the Lock.
Plug the device(s) into the Lock's LAN port(s) and go!

B) Connecting device(s) with Fixed IP addresses by configuring the DEVICE to the LOCK:

1. Before connecting device to Lock, connect to device per device manufacturer's instructions on your PC and assign a new static IP address to device(s) from the Lock's IP range printed on the bottom label of the Lock. Do not add same IP address. We recommend adding the next IP sequential address ABOVE the IP address on the lock, and so forth for each additional device. (*Note: Lock's IP and netmask address can also be found in the service port at Network → LAN)
2. Plug the device(s) into the Lock's LAN port(s) and go!

C) Connecting device(s) with Fixed IP addresses by configuring the LOCK to the DEVICE:

1. Get the device(s') IP address(es) and netmask.
2. Connect your PC to the Lock's service port and log in following the step 1 on page 15 "Updating the Lock software".
3. Go to Network-→LAN and change the IP address in the "IPv4 address" field to the next IP address above the IP address of the device (step 1). Also check that the "IPv4 netmask" field corresponds to the netmask set on the device and change it if necessary.
4. Plug the device(s) into the Lock's LAN port(s) and go!
5. ADVANCED/ENTERPRISE USERS ONLY: Go to Network→LAN DHCP SERVER and set the "Start" value so that it's higher than all used static addresses. Set the limit value to a suitable value so that it covers the rest of the unused addresses in the LAN range. For example, the range 192.168.5.50 - 192.168.5.254 contains 205 addresses so the "Start" value would be 50 and the "Limit" value would be 205.

5.1.2 DEPLOYING THE LOCK IN “CLIENT MODE”

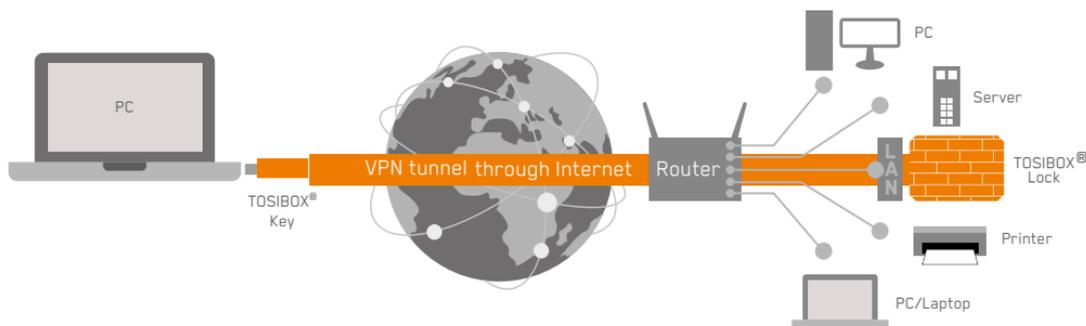
Client mode can be used for connecting the Lock to an existing network (e.g. an office network). In this mode, the Lock joins the network like any other device (e.g. a PC) and provides remote users with access to other devices in the same network. The Lock will obtain its address from the DHCP, so the local network needs to have a working DHCP server that allocated IP addresses.

A) Connecting network devices in Client Mode

1. Log into the Lock's web user interface as admin and open the LAN settings by clicking Network → LAN.
2. Change the LAN interface protocol field to “DHCP Client”. Click the “Switch Protocol” button and click “Save”.
3. Plug in a cable from the local network into one of the Lock's LAN ports and go!

Notices in Client Mode:

- Do not connect the internet to the Lock's WAN Port or a USB modem to the USB port. Doing so will automatically deactivate the client mode and revert the Lock's LAN settings back to factory defaults.
- Do not connect any LAN port directly to the internet.
- Do not connect the controlled devices to any LAN port.
- The lock will scan the entire LAN network for connected devices and will grant device access to any user with a matched Key. Please keep this in mind when considering network and information security.
- In cases where access rights need to be restricted, switch on MAC/IP Filtering (under Advanced Settings) or set up the Lock in its factory default configuration.
- In this mode, the Lock's inbuilt firewall does not protect the devices in the LAN network.



5.2 CONNECTING LOCKS

With TOSIBOX® Locks one can connect machines in separate places so that the connection between them is permanently and automatically on. One example is a real-time protected connection between home and office. This is made with a Lock/Sub Lock solution (see accompanying image Connecting Locks). Up to 10 Sub Locks can be connected to one Lock.

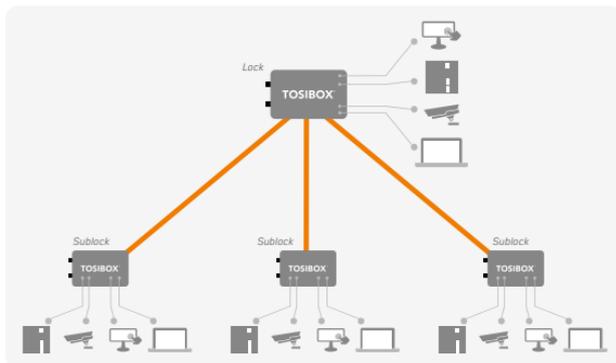
First match the Key to all the Locks to be connected as described in section "Instructions for TOSIBOX® Key and Lock setup".

CONNECTING LOCKS

1. Insert a matched Key to the USB port of the computer.
2. Choose "Devices" from the Key user menu and "Connect Locks" from the drop down menu.
3. Choose the Locks that you want to connect together and choose "Next".
4. Choose the Lock that you want to attach the Sub Locks. The other Locks will be changed to Sub Lock operating mode.
5. Confirm the selection → Save → matching is ready.

NOTE: The connections will come into effect when the Locks have access to the Internet.

The Sub Lock ends of the connection in the picture do not have their own DHCP service. If the connection between the Lock and the Sub Lock is interrupted, the network devices connected with the Sub Lock can no longer connect to the Internet and each other.



5.3 UPDATING THE LOCK SOFTWARE

- Connect the computer to the service port of the Lock with an ethernet cable. First check that you have access to the Internet via the service port. Open an internet browser and type <http://172.17.17.17> into the address field to access the Lock user interface. Do not type "www" before the "http://" in the address.
 - Alternatively you can also log in remotely. When the connection between the Key and the Lock is active, double click the Lock symbol in the Key user interface.
- Log in using "admin" for the user ID. The default admin password is visible on the bottom of the Lock.
- Choose "Settings" → "Software update". If there is a software update available for the Lock, you can start the update by clicking the "Start software update" button.
- Wait until the update has been downloaded and installed. Do not interrupt the power of the Lock during the software update process. The update is complete when the software gives a notice "Software updated successfully".

Automatic software updates are activated as a default setting. You can select the time when the automatic update of the released software is allowed. You can deactivate the automatic software update from the Lock user interface.

Choose "Settings" → "Software update" → uncheck the box "Auto-update enabled".

5.4 USB MODEM SETTINGS FOR THE LOCK

You can connect the Lock to the Internet with a USB Modem. For information on supported modems go to: <http://www.tosibox.com/support>

- Log in as admin user, select "Network" → "USB Modem".
- Either use the Automatic APN setting or fill in the APN and if necessary the PIN field according to the SIM card settings. For APN settings information, please contact your mobile operator.
- Confirm the selection → Save.
- Connect a Tosibox supported USB Modem to the USB port of the Lock.

5.5 WLAN SETTINGS FOR THE LOCK

(LOCK 100 ONLY)

On Lock 100 you can configure the WLAN as Client (providing Internet access for the Lock) or as Access Point (Providing access to Lock LAN and Internet for wireless devices). For detailed set up instructions go to <http://www.tosibox.com/support>.

5.6 KEY CONNECTION SETTINGS FOR THE LOCK

You can change the Key connection type from Layer 3 -routed (default) to Layer 2 -bridged ("Connection type" → "Layer 2 -bridged").

On Layer 2 connections you can allow connections from Lock to Key. Log into the Lock as admin, select "Settings" → "Keys and Locks" → remove selection "Deny access towards client"

For more details on Layer 2 and Layer 3 connections go to: <http://www.tosibox.com/support>.

5.7 ADVANCED SETTINGS FOR THE LOCK

On the Advanced settings page you can configure LAN and Internet access restrictions and security related settings.

1. Log in as admin
2. Choose "Settings" → "Advanced settings"
3. Confirm changes → Save

5.8 INTERNET CONNECTION PRIORITIES

Several alternative Internet connections can be used by the Lock:

- WAN
- USB modem
- WLAN (Lock 100 only)

One of the available connections can be selected as a main connection and the other connections can be set as backup connections. In the event that the main connection is interrupted, the connection is automatically shifted to preselected backup connections according to the priority setting (eg. WAN port → USB Modem). The connection is switched back to the main connection once it is available again.

5.9 PoE (LOCK 200 ONLY)

The "PoE out" port supports PoE output, with auto detection feature. This means you can connect laptops and other non-PoE devices without damaging them. The PoE on "PoE out" outputs approximately 2V below input voltage and supports up to 0.58A (So e.g. 24V PSU will provide 22V/0.58A output to the "PoE out" port).

The device accepts powering from the power jack or from the "PoE in" port (passive PoE)

- DC power jack (5.5mm outside and 2mm inside diameter, female center pin positive) accepts 8-27V DC +/-10%
- The "PoE in" port accepts passive Power over Ethernet 8-27V DC +/-10%

Under maximum load, the power consumption of this device is 7W.

5.10 MOUNTING INSTRUCTIONS (LOCK 200 ONLY)

INSTALLATION TO DIN RAIL

The Lock can be installed to DIN rail with the clip and screws included in the sales package. There are M3 threaded mounting holes on three sides of the equipment. For attachment on either of the narrow sides, the screws with length of 10 mm shall be used. For attachment on the bottom of the Lock, the screws with length of 6mm shall be used. The screws shall be placed through the bottom sticker which has the hole locations indicated.

Please see pictures 1 - 4 for the mounting options.

Picture 1.



Picture 2.



Picture 3.



Picture 4.



USING THE RUBBER FEET

Rubber feet included in the sales package can be installed in the bottom of the Lock for more convenient installation horizontally e.g. on a table.

Please see picture 5 and 6 for the mounting.

Picture 5.



Picture 6.



5.11 MOUNTING INSTRUCTIONS (LOCK 100 ONLY)

QUICK INSTALLATION TO DIN RAIL

The bottom of the Lock has integrated hooks that allow a quick installation to DIN rail with the LAN/WAN ports facing upwards.

SECURE INSTALLATION TO DIN RAIL

For environment where a more robust installation method is needed or another installation orientation is wanted, the Lock can be installed to DIN rail with the clip and screws included in the sales package. There are M4 threaded mounting holes on the bottom of the equipment. The screws shall be placed through the bottom sticker which has the hole locations indicated. Use only the screws included in the sales package. Using longer screws pose a risk of damaging the device internal electronics. More versatile installation options to DIN rail, such as angle brackets are available from an authorized TOSIBOX® reseller as an accessory.



Lock 100 with DIN clip

WALL MOUNTING

The bottom of the Lock has two keyhole shaped openings that allow the Lock to be installed on the wall with countersunk screws.

5.12 INPUT POWERING OPTIONS

USING THE DC INPUT PLUG

In case the operating voltage of 8-27V DC +/-10% (Lock 200) or 8-30V DC (absolute value for Lock 100) is available from an external power source with only stripped wires, a DC input plug included in the sales package can be used. The polarity marking in the plug shall be observed and on Lock 200 the use of the cable saddle is recommended.

USING THE CABLE SADDLE

To secure the input power cable from being accidentally pulled away from the power input jack, a cable saddle is included in the sales package (Lock 200). The cable saddle is locked in place by inserting it into the 4mm diameter hole in the front panel.

6. TOSIBOX® KEY

6.1 TAKING THE MASTER KEY INTO USE

1. Insert the matched Key into the USB port of your computer. You should notice an auto play window open up on your desktop. If not, double click the executable file located in the Key's folder (Setup_Tosibox.exe). If your computer asks whether you want to allow Tosibox to make changes to your computer click yes.
2. The Key software will ask for a password that you can enter if you wish (recommended). By entering a password, you can prevent the unauthorized use of the Key. Store the password safely. Also pay attention to PUK code instructions on section 6.5.
3. The Key software opens up a window that shows the Locks that have been matched to the Key. Connect the Key with the wanted Lock by clicking the Lock's "Connect" icon.
4. The Key info dialogue shows the status of the connection between the Key and Lock.

The Key is now ready to be used

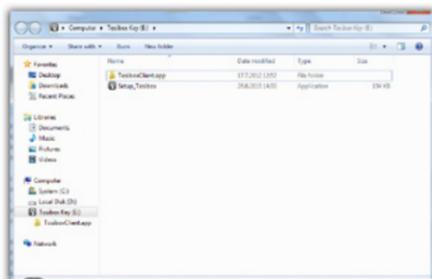
The Lock symbol displays a different colour according to the operating status of the Lock:

- Red = The Lock is not connected to the Internet.
- Yellow = The Lock is connected to the Internet, but the Key doesn't have a remote connection to the Lock.
- Green = The Lock is connected to the Internet and the Key has a remote connection to the Lock.

The Key symbol located in the computer's task bar displays different colours according to the operating status of the Key:

- Red = The Lock is not connected to the Internet.
- Yellow = The Key is connected to the Internet, but not to any found Locks.
- Green = The Lock is connected to the Internet and the Key has a remote connection to the Lock.

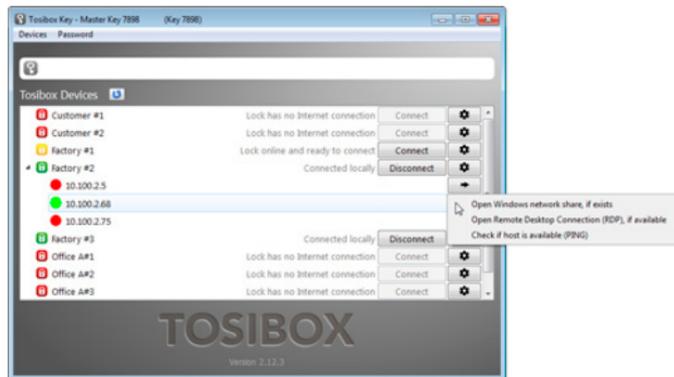
Picture 1. Deploying the Key



Picture 2. Setting the password



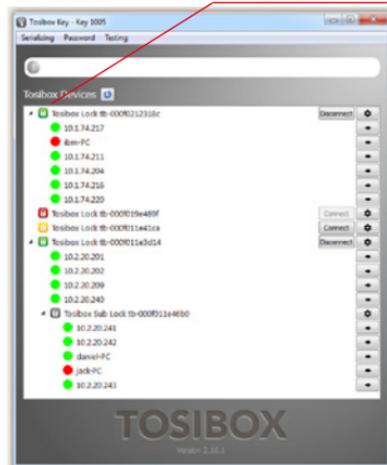
Picture 3. Key user interface



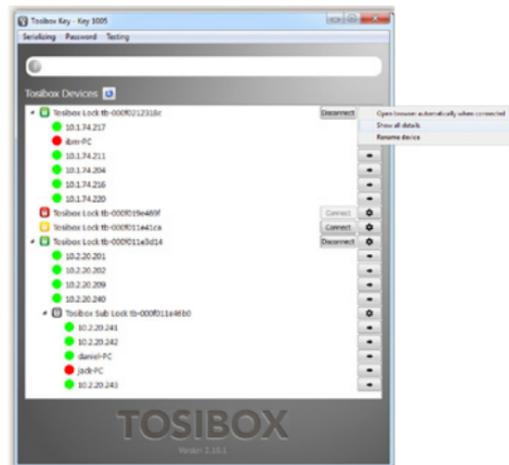
KEY USER INTERFACE

Picture 1.

Double click to open Lock user interface



Picture 2.



Picture 3.



6.2 RENAMING AND USING DEVICES

PICTURE 1.

This is the start window for the Key user interface. You can open the Lock user interface by double clicking the Lock icon on the left side of the window.

PICTURE 2.

By clicking  an extra menu opens.

1. Click "Open browser automatically when connected" to have the Lock user interface launch automatically when the Key connects to the Lock.
2. Selecting "Show all details" allows you to view all the details of the connected device.
3. Click "Rename" to rename the selected Lock. The Lock names are global so a Lock's name change will be reflected on all locks and Keys. Only Master and Back-up Keys can rename Locks.

PICTURE 3.

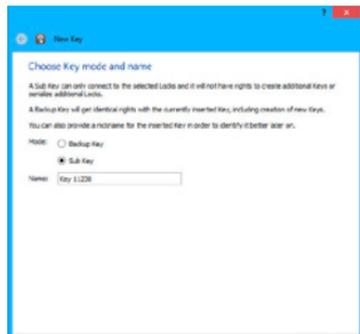
1. You can open the browser user interface of the controlled device in "Open with browser (http)".
2. You can connect to network sharing in "Open windows network share".
3. You can open the remote desktop connection in "Open Remote Desktop Connection (RDP), if available".
4. You can check the functionality of the controlled device with PING command in "Check if host available (PING)".

6.3 ADDING EXTRA KEYS

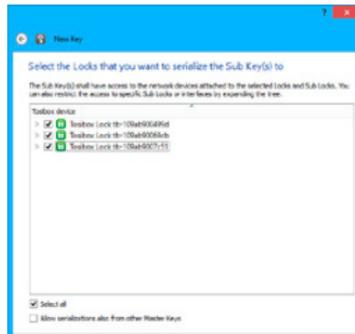
Additional Keys can be matched with a Lock.

1. Insert a previously matched Key into the USB port of your computer.
2. Insert a new Key to another USB port of the computer.
3. Wait until "New Key" window opens.
4. If you are adding a Sub Key, follow the steps 1-4 ADDING SUB KEY.
If you are adding a Backup Key, follow the steps 1-4 ADDING BACKUP KEY.

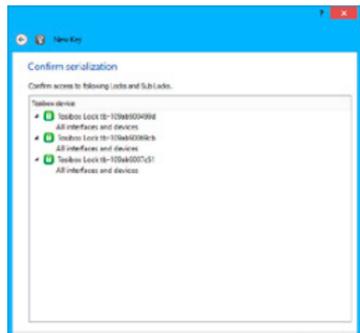
ADDING SUB KEY



1. When a new Key is turned into a Sub Key, choose "Sub Key", provide a descriptive name for it, and click "Next". A Sub Key is able to connect to chosen Locks but it has no rights to create new Keys.



2. Select the Lock(s)/Sub Lock(s) to which you want to grant access for the extra Key and choose "Next".

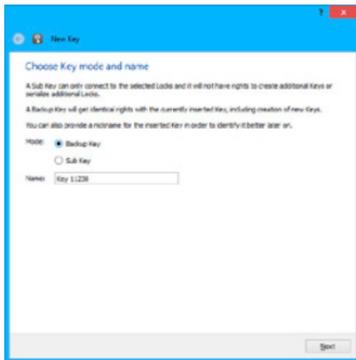


3. Confirm the selection by pressing "Save". Matching of the extra Key is now complete.



4. The extra Keys can be removed in the Lock user interface by clicking Settings → Keys and Locks (admin only).

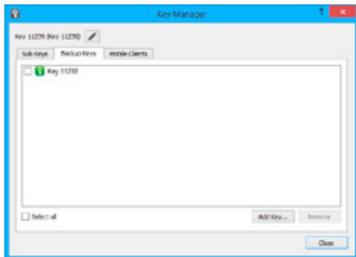
ADDING BACKUP KEY



1. Choose "Backup Key" and press "Next". All Keys and Locks are automatically synchronized between the Backup Keys.



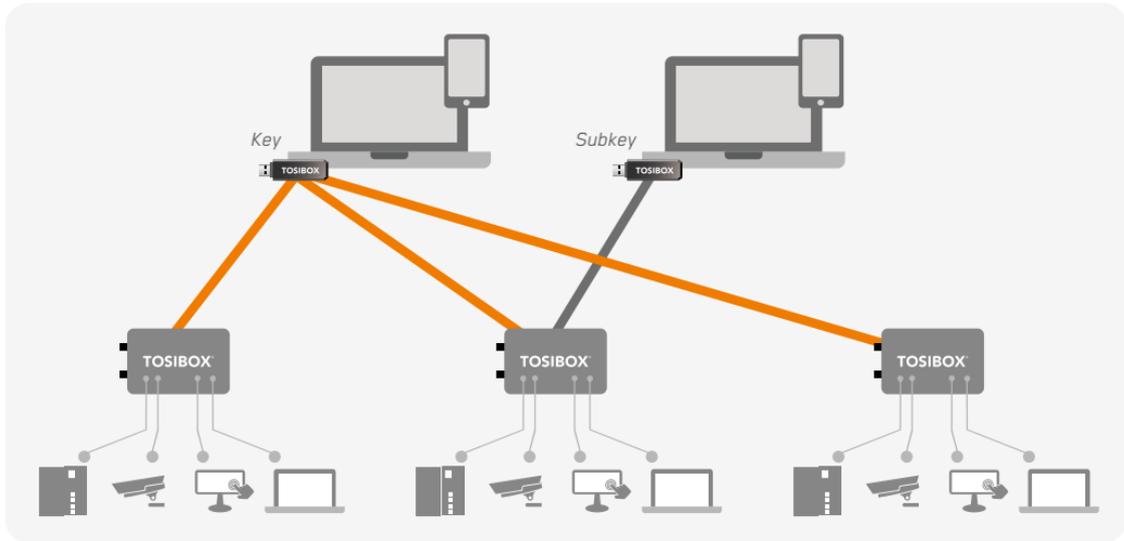
2. Confirm by pressing "Save".



3. The Backup Key is now created. Press "Close" button to exit the feature.

4. The Backup Keys can be managed later in the Key user interface under "Manage Keys". Important: This feature creates a Backup Key with equal user rights. Later, when the new locations are deployed by the other Key, the access rights are automatically copied to both Keys.

EXTRA KEY USE CASE



6.4 REMOTE MATCHING OF EXTRA KEYS

This feature is only available for Keys that have already been matched locally.

1. Insert the Key into the USB port of the computer and wait for the TOSIBOX® Key application to start.
2. Choose "Manage Keys" from the "Devices" menu in the user interface and open the "Sub Keys" tab.
3. Choose the extra Keys to which you want to add new Locks and press the "Match..." button.
4. Choose the Locks to which you want to add to the extra Keys and press the "Next" button.
5. A list of targeted Locks is displayed. Confirm the choices and click "Save".
6. Matching of the extra Keys is now complete. Press "Finish" button to exit the wizard.

6.5 PUK CODE FOR THE KEY

1. In the event that a wrong Key password has been entered six consecutive times, the Key will be locked. To unlock the Key a personal unlocking code, PUK is needed. The PUK code is delivered with the Key. Store it safely.
2. Go to the "Password" menu in the Key software and choose "Change password using PUK code...".
3. Enter the PUK code into the "PUK-code" field.
4. Enter a new password into the "New password" field.
5. Confirm your password by typing it once more into the "New password (again)" field.
6. Choose "OK".

7. MOBILE CLIENT

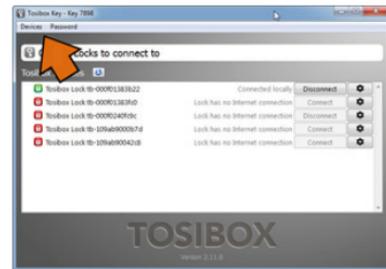
7.1 MOBILE CLIENT FOR ANDROID DEVICES



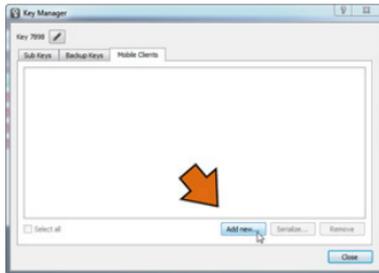
1. Download and install the TOSIBOX® Mobile Client from the Google Play store.



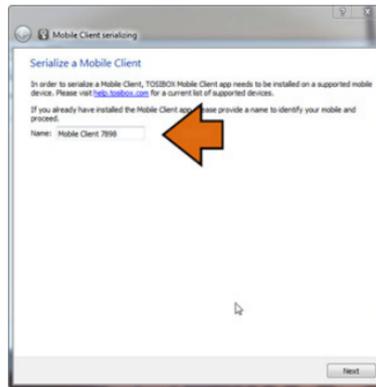
2. Open the TOSIBOX® Key software by plugging a matched Key into the USB port of your computer.



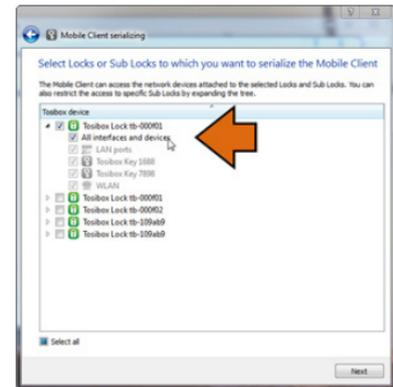
3. Go to the software menu and select Devices → Manage Keys.



4. Select the mobile clients tab and click Add new...



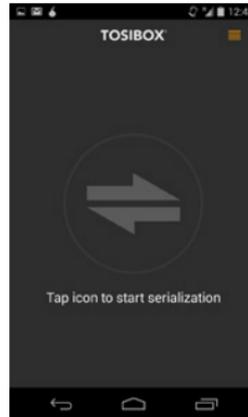
5. Enter the name of your mobile device and click Next.



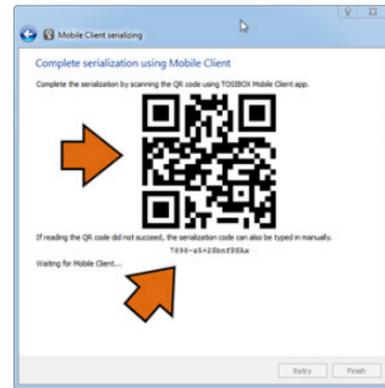
6. Select the Locks that you would like to access through your mobile device and click Next.



7. Open the TOSIBOX® Mobile Client on your device.



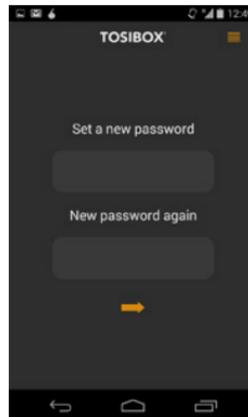
8. Tap the screen to start matching.



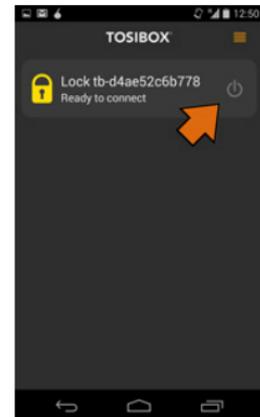
9. Scan the QR code displayed on your computer or enter the matching code where prompted on your device.



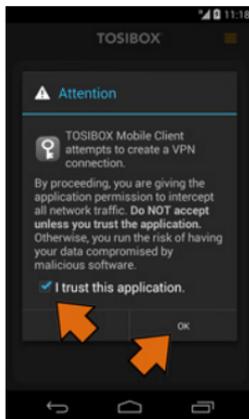
10. Click Finish once the matching is complete.



11. Create a password for the mobile client.



12. Connect to a Lock by selecting its on/off icon.



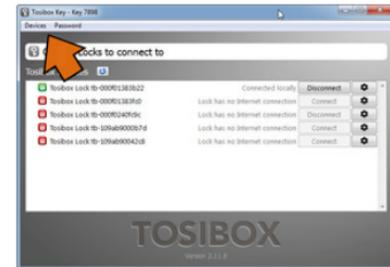
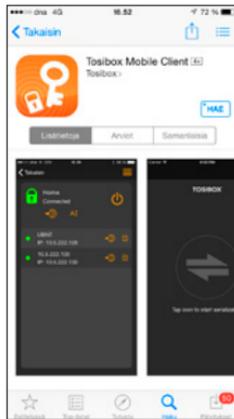
13. Check the I trust this application dialogue box and click OK.



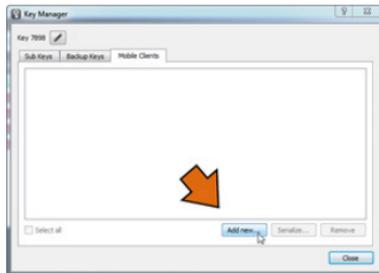
Congratulations! You're done! Now your mobile client is matched and can connect to the selected Locks and devices connected to them.

You can open network devices through your web browser (if available) by clicking the the appropriate globe icon. Note: If your network device does not have a web interface (HTTP / HTTPS), you can use a third party application to make the connection. You can find third party applications from the Google Play store. You can copy the network device IP address to the device's clipboard by clicking the IP button. Doing so will allow you to paste the IP address to a third party application.

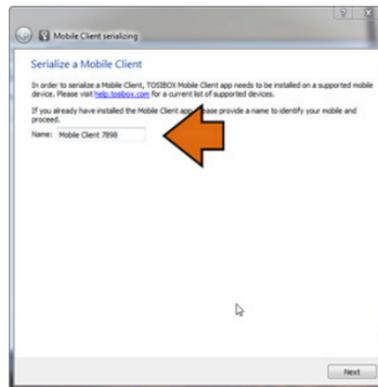
7.2 MOBILE CLIENT FOR IPHONES AND IPADS



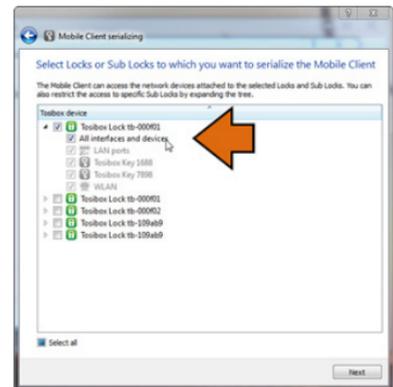
1. Download and install the TOSIBOX® Mobile Client from the App Store.
2. Open the TOSIBOX® Key software by plugging a matched Key into the USB port of your computer.
3. Go to the software menu and select Devices → Manage Keys.



4. Select the Mobile Clients tab and click Add new...



5. Enter the name of your mobile device and click Next.

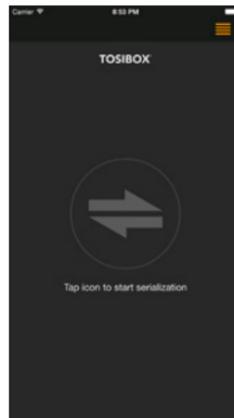


6. Select the Locks that you would like to access through your mobile device and click Next.



iOS

7. Open the TOSIBOX® Mobile Client on your device.



iOS

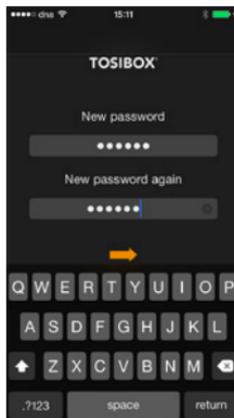
8. Tap the screen to start matching.



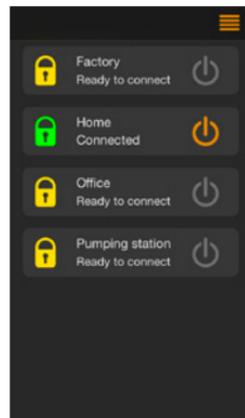
9. Scan the QR code displayed on your computer or enter the matching code where prompted on your device.



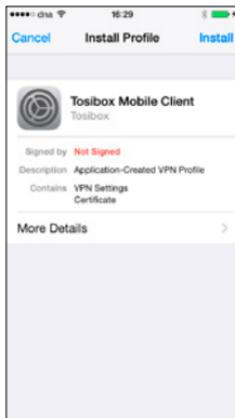
10. Click Finish once the the matching is complete.



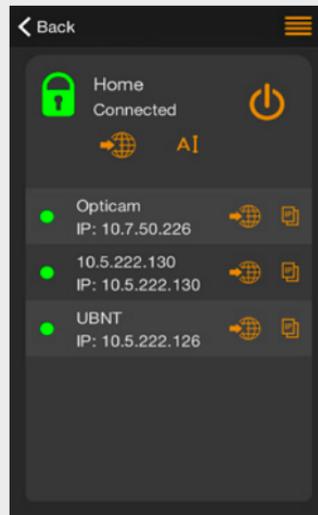
11. Create a password for the mobile client.



12. Connect to a Lock by selecting its on/off icon.



13. On the first time when connecting to a Lock, the user needs to authorize the installation of the VPN profile by entering the device passphrase.



Congratulations! You're done! Now your mobile client is matched and can connect to the selected Locks and devices connected to them.

You can open network devices through your web browser (if available) by clicking the appropriate globe icon. Note: If your network device does not have a web interface (HTTP / HTTPS), you can use a third party application to make the connection. You can find third party applications from the App Store. You can copy the network device IP address to the device's clipboard by clicking the IP button. Doing so will allow you to paste the IP address to a third party application.

9. TROUBLESHOOTING

The Key software cannot be installed:

- Check whether your computer has an operating system supported by TOSIBOX®: Windows XP/SP3, Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10 and Mac OS X Leopard 10.5 or more recent version
- Restart the computer and reattach the Key.

The Key's connection window does not show the connections:

- The computer is not connected to the Internet.
- The Key is not matched with the Lock.
- The Lock does not have an internet connection or is not connected to the AC adapter.

The Lock connection in the window remains yellow:

- The Key has found a Lock, but VPN has not yet been established.

Device connections or the Lock connection in the window remains red:

- Make sure the controlled devices are connected to the Lock.
- If connected wirelessly (Lock 100 only), use the ethernet service port to log in to the Lock. Check that the wireless connection is enabled and that the Lock and the controlled device have the same password and encryption settings.
- Make sure the controlled device has a DHCP-service. If not, add the device in the device list of the Lock and specify the IP address of the device .

Go to <http://www.tosibox.com/support> for more instructions.

10. MAINTENANCE INSTRUCTIONS

TOSIBOX® devices should be treated with care. By observing the following instructions you can enjoy the maximum performance of the devices and ensure full warranty coverage.

- Keep the devices dry. Protect the devices from precipitation, moisture and liquids. They can cause corrosion to electronic circuits. The devices are intended for indoor use only. Do not use them in wet locations or outdoors.
- Protect the devices from dirt and dust. When necessary, clean the devices with a soft, dry cloth. Do not use chemicals, solvents, detergents or pressurized air.
- Protect the devices from heat. High temperatures can damage plastic parts and shorten the life of the electronics.
- Protect the devices from cold. Low temperatures can make them more susceptible to breakage. Let the device's temperature stabilize long enough before deploying them into the network..
- Protect the devices from mechanical shocks. Do not shake, knock or drop the devices.
- Do not paint the devices.
- Do not cover the devices or install them on top of each other. This can cause overheating. Allow enough free space around the devices to ensure the free flow of cooling air.
- Do not open the devices. There are no serviceable parts inside the devices. If the devices malfunction or need servicing, contact an authorized service facility.
- After the service life of the devices is over, do not throw them into domestic waste. Instead, take them to an authorized waste electronics collection facility.



11. TECHNICAL DATA

11.1 TOSIBOX® LOCKS

LOCK 100	LOCK 200
<p>Ports</p> <ul style="list-style-type: none"> • 1 x USB 2.0, type A • 1 x RJ-45 WAN conn., 10/100 Mb/s, auto-negotiation (MDI / MDI-X) • 3 x RJ-45 LAN conn., 10/100 Mb/s, auto-negotiation (MDI / MDI-X) • 1 x RJ-45 Service conn., 10/100 Mb/s, auto-negotiation (MDI / MDI-X) 	<p>Ports</p> <ul style="list-style-type: none"> • 1 x USB 2.0, type A • 1 x RJ-45 WAN conn., 10/100 Mb/s, auto-negotiation (MDI / MDI-X) • 3 x RJ-45 LAN conn., 10/100 Mb/s, auto-negotiation (MDI / MDI-X) • 1 x RJ-45 Service conn., 10/100 Mb/s, auto-negotiation (MDI / MDI-X)
<p>WAN connection features</p> <ul style="list-style-type: none"> • Independent of operating systems • Works in all Internet connections (operator independent) • Firewall friendly • Works with dynamic, static and private IP addresses • Built-in firewall, NAT • Up to 10 concurrent VPN connections • VPN throughput up to 6 Mb/s (BF-CBC 128 bit) 	<p>WAN connection features</p> <ul style="list-style-type: none"> • Independent of operating systems • 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 15 Mb/s (BF-CBC 128 bit)
<p>Physical properties</p> <ul style="list-style-type: none"> • 132 mm (L) x 99 mm (W) x 36 mm (H) • Weight 365 g • Operating temperature -25 °C ... +70 °C • Operating humidity 20 - 80% RH, non condensing • Storage temperature -40 °C ... +70 °C • Cast aluminium casing • IP protection class: IP20 	<p>Physical properties</p> <ul style="list-style-type: none"> • 140 mm (L) x 36 mm (W) x 125 mm (H) • Weight 530 g • Operating temperature -20 °C ... +50 °C • Operating humidity 20 - 80% RH, non condensing • Storage temperature -40 °C ... +70 °C • Cast aluminium casing • IP protection class: IP20 • Maximum operating altitude 10000 ft. / 3000 m • Overvoltage category I

11.2 TOSIBOX® KEYS

KEY 100	KEY 200
<ul style="list-style-type: none"> • 2048 bit RSA key in the cryptographic module • 4 GB or larger flash memory storage for Tosibox Key software and settings • USB 2.0 interface, type A • Standard CSP/PKCS#11 	<ul style="list-style-type: none"> • 2048 bit RSA key in the cryptographic module • 4 GB or larger flash memory storage for Tosibox Key software and settings • USB 2.0 interface, type A • Standard CSP/PKCS#11
<p>Supported operating systems</p> <ul style="list-style-type: none"> • Windows 10 • Windows 8/8.1 (32/64 bit) • Windows 7 (32/64 bit) • Windows Vista (32/64 bit) • Windows XP (SP3), Windows Server 2003 • Mac OS X Leopard 10.5 or more recent (Intel) 	<p>Supported operating systems:</p> <ul style="list-style-type: none"> • Windows 10 • Windows 8/8.1 (32/64 bit) • Windows 7 (32/64 bit) • Windows Vista (32/64 bit) • Windows XP (SP3), Windows Server 2003 • Mac OS X Leopard 10.5 or more recent (Intel)
<p>Physical properties</p> <ul style="list-style-type: none"> • 75 mm (L) x 23 mm (W) x 10 mm (H) • Weight 13 g • Casing ABS • Operating temperature 0 °C ... +70 °C • Storage temperature -20 °C ... +85 C 	<p>Physical properties</p> <ul style="list-style-type: none"> • 83 mm (L) x 22 mm (W) x 10 mm (H) • Weight 27 g • Casing aluminium + plastic • Operating temperature 0 °C ... +70 °C • Storage temperature -20 °C ... +80 °C

12. LIMITED WARRANTY

Subject to the exclusions set forth below, Tosibox Oy will repair or replace, at its option without charge, any TOSIBOX® product which fails due to a defect in material or workmanship within Two Years following the initial consumer purchase.

This warranty does not apply to water damage, abuse or misuse of unauthorized accessories, unauthorized service or modification or altered products.

This warranty does not include the cost of labor for removal or re-installation of the product.

ANY IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED AS SET FORTH HEREIN AND TO THE DURATION OF THE LIMITED WARRANTY, OTHERWISE THE REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL TOSIBOX OY BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE, GROSS NEGLIGENCE, BODILY INJURY, PROPERTY DAMAGE AND DEATH) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR ACCESSORY, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

The complete information about Tosibox Terms and Conditions is available at: www.tosibox.com/warranty

For Product Purchased in the USA:

Performance of any obligation under this warranty may be obtained by returning the warranted product, prepaid freight, along with proof of purchase to:

Tosibox, Inc.
7778 McGinnis Ferry Road
Suite 301
Suwanee, GA 30024

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Note: The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions thereof, or from a U.S. Military exchange.

For Product Purchased in Canada:

Performance of any obligation under this warranty may be obtained by returning the warranted product, along with proof of purchase, to your place of purchase in Canada.

This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some within Canada

13. LEGAL NOTICES

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Source code requests can be submitted to:

sourcecode.request@tosibox.com or by mail:

Tosibox Oy

Teknologiantie 12 A
90590 OULU, FINLAND

14. DECLARATIONS

14.1 LOCK 100 DECLARATIONS

EU DECLARATION OF CONFORMITY

This product is compliant with the Directive 2014/53/EU. The relevant Declaration of Conformity is available at: www.tosibox.com/product/lock-100/EU-DoC

FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

This device complies with FCC part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC ID: 2AHCNLOCK100



14.2 LOCK 200 DECLARATIONS

EU DECLARATION OF CONFORMITY

This product is compliant with the Directive 2014/35/EU and 2014/30/EU. The relevant Declaration of Conformity is available at: www.tosibox.com/product/lock-200/EU-DoC

UL DECLARATION OF CONFORMITY

This device is UL listed in USA and Canada with UL file number E474664.



TOSIBOX®



www.tosibox.com

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