

Tosibox - Connecting OT systems and devices with enterprise applications, IT systems and cloud-based services via Tosibox Platform.

Lapp Australia are proud to be a platinum Tosibox partner and to help build your Tosibox ecosystem.

Tosibox have headquarters in Finland and are sold globally in more than 140 countries.

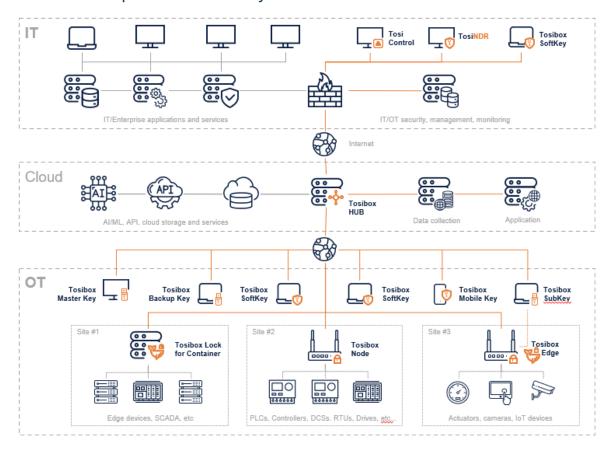
For many automation engineers, Tosibox provides the platform to allow transparent connectivity to a remote site's controls network to remotely monitor, troubleshoot and program automation devices including PLCs, HMI, RTU, PCs, etc. Tosibox is brand agnostic – if your device can be connected to an Ethernet network and has an IP address, it can be connected to Tosibox.

Robust cybersecurity is provided by:

- Automated Firewall Setups
- VPN Access Control
- Point to point VPN Tunnelling
- 256-bit AES Encryption
- SSL/TLS
- IT/OT Segmentation

Tosibox eliminates the need for fixed static IPs and DNS servers or unsafe port forwarding, making networks invisible to the internet and protecting against network-based attacks.

Tosibox Enterprise Connectivity





Tosibox Components

Tosibox components are sold separately and comprise Tosibox keys (including softkeys and mobile client keys), Tosibox locks and external antennas & cables. In the past, Tosibox was available as a kit (master key + lock) but this concept was scrapped and is no longer available as customers would only need to buy master keys once.

Tosibox Keys

Master Key Softkey Mobile Client TOSI-TBK2 01 license – TOSI-TBSKL1 05 licenses – TOSI-TBSKL5 10 licenses – TOSI-TBSKL10 10 licenses – TOSI-TBMC1

Tosibox Locks - Current Models





External Antennas

When a Tosibox lock is installed in a metal enclosure, the Tosibox antennas will be ineffective, and an external antenna will be required. Lapp Australia provide 2 external Tosibox antennas for LTE connections – either an omnidirectional antenna or magnetic mounting antenna. Other options not included in this document are wifi antennas, extension cables if mounting the antenna on a roof or pole and Ethernet patch leads, all available from Lapp Australia.



TOSI-TBANT1

Omnidirectional external antenna

8m cable



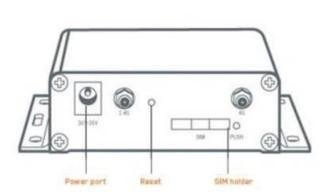
TOSI-TBANT2

Magnetic mount external antenna

3m cable

Typical Tosibox Hardware

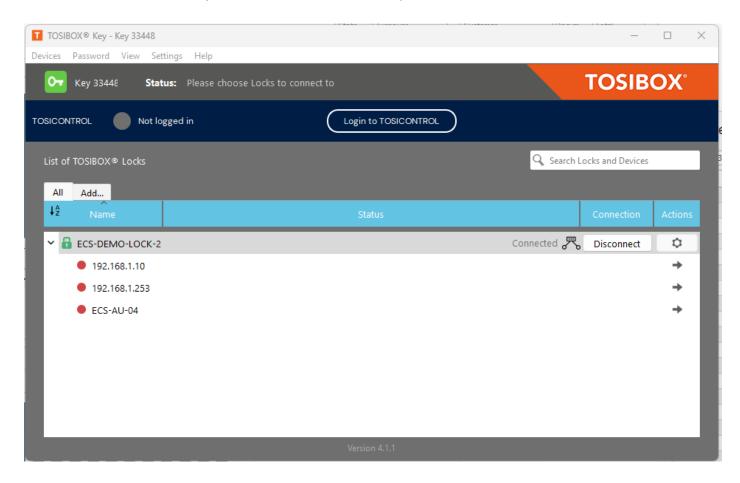






Tosibox architecture is based on keys and locks.

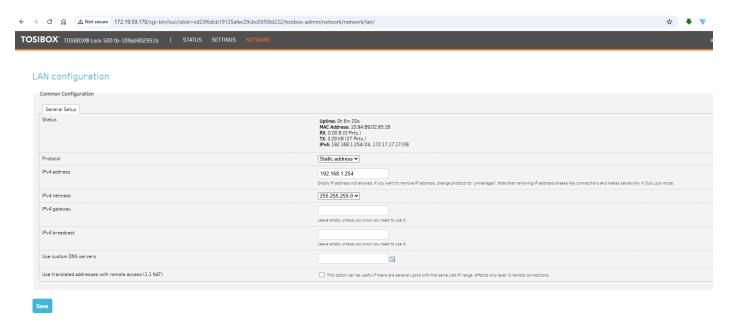
- A client or user with a Tosibox master key (or sub key or softkey) pairs a key with a Tosibox lock.
- The user will then have unconditional access to the Tosibox lock/s linked with the master.
- Generally, you purchase a single master key and then build up an infrastructure of multiple locks which are unlimited. The trick here is that your master key is a physical USB device which can be damaged, lost, etc. If you have an infrastructure of field installed Tosibox locks, we recommend that a second master key is purchased and kept in a safe place as a backup key. To create a Tosibox backup key >> https://www.youtube.com/watch?v=7lkWb9p5Dfl
- Many of the locks have multiple connection paths e.g. Ethernet WAN, wifi access point or client or 4G/5G network.
- Tosibox can be connected to Starlink networks to provide global network connectivity contact Lapp Australia's automation team for a solution >> <u>automation@lappaustralia.com.au</u>
- Make sure that your passwords are known and backed up. Security protocols dictate that the Tosibox locks cannot be user reset if a password is lost.
- A fixed IP address via the SIM is not necessary. Tosibox works with an encrypted cybersecure
 connection between the master key or soft key and the Tosibox lock/s. If multiple Tosibox locks
 are configured and able to be connected to, you would see multiple Tosibox locks. Simply click
 on the Tosibox lock you want to connect to, and press Connect.





The Lock's local area network is configured in the Tosibox LAN configuration settings.

Below, we are setting the Tosibox as a gateway with address 192.168.1.254. A PLC is connected to the Tosibox LAN port - in this case is 192.168.1.10. The network connection is transparent – from laptop user to Tosibox remote network, coexisting on the 192.168.1 network in this case.



Softkeys

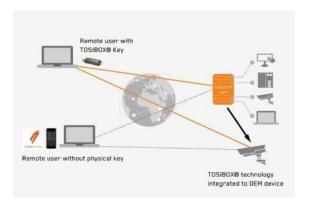
- A user with a master key can assign a softkey to any user. The master user then provides a code to the remote user to activate the softkey access.
- Once the remote user enters the code, the master key user must approve the activation.
- Softkey assignment can be removed from the user by the master key user at any time.
- How to create a softkey >> https://www.youtube.com/watch?v=y8U3Uf5zt2Y&t=37s
- To purchase a softkey or mobile client, please provide the unique master key number (e.g. EC33776). The softkey license is then linked to the master key this process takes about 24 hours. You do not receive anything when you purchase a softkey license apart from an email from Lapp Australia indicating that the softkey license has been activated. Once the softkey is linked to a master key, the person with a master key can thereafter allocate softkeys as required.

Mobile Client

- Mobile clients allow secure and easy remote access to the Tosibox lock using iPhones, iPads and Android devices.
- With this device connection, you can use your device or connect to network devices seamlessly OR use a software tool such as VNC to monitor and control a VNC enabled touchscreen.

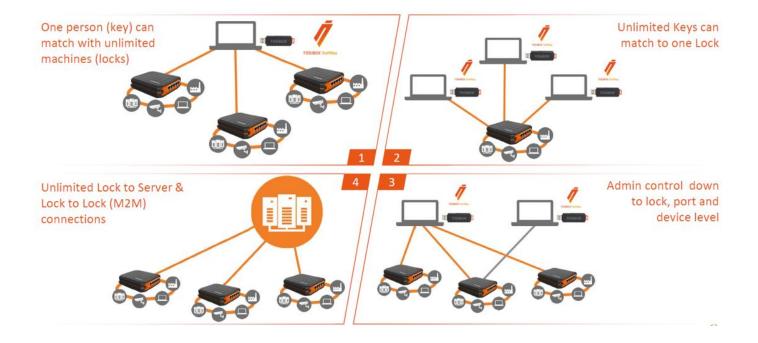


• How to create a Tosibox Mobile Client >> https://www.youtube.com/watch?v=x7Ee-0A4IO8



Licensing and key works as below, and in future, if you must add another site, you will only need a lock, and the key you will be purchasing with the first lock can be reused.

Build up Networks in Seconds with Unlimited Scalability





Why TOSIBOX?

Tosibox vs. Existing Networking Solutions



Tosibox does not require any recurring subscription costs unless using Tosi Hub or Tosi Control at higher enterprise levels. For remote connectivity, all you need is your required Tosibox components and if you use 4G or 5G; a suitable SIM card with a data plan. Data plans are provided by your telecommunications provider, not Lapp Australia or Tosibox.

If you have any questions, please contact LAPP Australia's industrial automation team via email: automation@lappaustralia.com.au.