# TOSIBOX

## Advantages of TOSIBOX

**Simple**
Build and manage secure OT 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 for Container

## Connect your IPCs, HMIs, PLCs and controllers

TOSIBOX® Lock for Container is a software-only way of connecting industrial IoT devices running on Linux to your TOSIBOX® network. It serves as an endpoint for secure remote connections.

With TOSIBOX® Lock for Container, services running on the connected device can be securely accessed over the Internet and most LAN and WAN networks through highly encrypted VPN connection.

TOSIBOX® Lock for Container is compatible with all existing TOSIBOX® products. Modularity of the products enables easy and fast extension of networks.

## Main features

- Manage any service, access any device
- Simple installation and fast activation
- No need for supervision, runs silently in the background
- Can run behind NAT and in firewalled networks
- VPN throughput limited only by network connection
- End-to-end encryption between TOSIBOX® devices
- Audited and patented security

# TOSIBOX® Lock for Container Technical Data

**Product code:**
TBLFC1

**Recommended software requirements**
- Any 64-bit Linux OS supported by Docker and Docker Engine - Community v20 or later installed and running (www.docker.com)
- Docker Compose
- Linux kernel version 4.9 or later
- Full functionality requires certain kernel modules related to IP tables
- Any 64-bit Windows OS with WSL2 enabled (Windows Subsystem for Linux v2)
- Installation requires sudo or root level user rights

**Recommended system requirements**
- 50 MB RAM
- 50 MB hard disk space
- ARM 32-bit or 64-bit, Intel or AMD 64-bit dual core processor
- Internet connectivity

**Security**
- Patented TOSIBOX® connection method
- PKI with 3072-bit RSA key
- Compatible with all TOSIBOX® devices and products
- Uses Remote Matching for including to your TOSIBOX® secured network
- Uses device firewall for security

- TOSIBOX® software separated from system software

**WAN connection features**
- Serves as an endpoint for TOSIBOX® secure VPN tunnel
- Two-way VPN connections to/from Virtual Central Lock
- One-way VPN connection from TOSIBOX® Key
- Works in all Internet connections (operator independent)
- Supports HTTP proxy servers with and without authentication
- Works with dynamic, static and private IP addresses
- Up to 2 concurrent VPN connections
- VPN throughput limited only by network connection
- NAT for routes
- Layer 3 connections
- LAN access if supported by the device

**User Interface**

- Packed with TOSIBOX® web UI for remote configuration

**Required open firewall ports**
- Outbound TCP: 80, 443, 8000, 57051
- Outbound UDP: random, 1-65535
- Inbound: none

| Feature | TOSIBOX® Node | TOSIBOX® Lock for Container |
|---|---|---|
| Operating environment | Hardware device | Software running on Docker platform |
| Deployment | Plug & Go™ connectivity device | Available in Docker Hub and in well-equipped marketplaces |
| Internet connectivity | 4G, WLAN, ethernet | - |
| Layer 3 | ✓ | ✓ |
| Layer 2 (Sub Lock) | ✓ | - |
| NAT | 1:1 NAT | NAT for routes |
| LAN access | ✓ | ✓ |
| LAN device scanner | For LAN network | For Docker network |
| Matching | Physical and remote | Remote |
| Open firewall ports from internet | - | - |
| End-to-end VPN | ✓ | ✓ |
| SW auto-update | ✓ | Update via Docker Hub |

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