

ECOS SecureBootStick ZX

Remote data access for VS-NfD, EU and NATO RESTRICTED



- Highly secure
- Budget-friendly
- BSI-approved

safe and smart

ecos

ECOS SecureBootStick ZX

Multi-factor authentication per ID Card

The BSI-approved ECOS SecureBootStick ZX allows federal agencies, German Armed Forces, NATO and companies subject to security programs for the first time to access data and applications classified VS-NfD, EU/NATO restricted from any-even private-PC.

IT Security Solutions

Made in Germany

Performance characteristics

BSI approval

- ◆ Approved for processing data up to classification level VS-NfD, NATO RESTRICTED, EU RESTRICTED

Applications

- ◆ RDP client, Citrix Workspace app (formerly Citrix Receiver), VMware Horizon via RDP; PCoIP; BLAST, Firefox, Chromium, VPN client for IPsec
- ◆ Citrix HDX RealTime Media Engine to optimize audio and video transmission for Skype for Business and Microsoft Teams
- ◆ Microsoft RemoteFX for optimizing audio quality for RDP

Supported destination systems

- ◆ Microsoft RDSH, WTS 2000 and later, RDS, RD sharing, Citrix Virtual Apps and Desktops, VMware Horizon or Web Server
- ◆ Client for genua remote maintenance, allows remote maintenance for VS-NfD systems (in approval)

VPN

- ◆ IPsec connection to genua genuscreen in BSI-compliant environments

Administration

- ◆ Access profiles for different applications/server on user, group or role level
- ◆ Use of local resources after release (external USB storage devices, local printers)
- ◆ Authorization assignment for external devices tied to the manufacturer ID or the device's serial number
- ◆ Remote update of all applications and firmware

Compatibility

- ◆ Integrated smartcard reader for PKI cards & ID cards in ID-1 format
- ◆ Drivers for all common 64-bit PCs, widely used on Intel-based Mac and tablets with x86 architecture
- ◆ UEFI Secure Boot support
- ◆ Keyboard drivers for more than 90 languages and countries
- ◆ Multi-monitor support
- ◆ Connection by LAN, WLAN, UMTS, LTE incl. browser for login to hotspot
- ◆ Dictaphones from Grundig and Philips (incl. foot pedals)
- ◆ Signing pads from signotec
- ◆ Software in German and English (pre-configurable)

Data Safe

- ◆ 1 GB, usable for storing documents (not VS-NfD), larger storage capacities on demand
- ◆ Hardware encryption with AES256, secured by smartcard plus PIN
- ◆ Installation-free use as USB drive under Windows, Linux and macOS

safe and smart



ECOS SecureBootStick ZX

Performance characteristics

Additional Features

- ◆ Signing, encryption or Windows smartcard logon via PC/SC forwarding
- ◆ Forwarding of external USB and LAN devices, for example to connect an IP phone
- ◆ Automatic reconnect in case of disconnection or connection change

Multi-factor authentication

- ◆ Software certificate, tied to the stick's hardware ID, and smartcard
- ◆ Pinpad for PIN entry on stick

Security

- ◆ Read-only partitions | signed partitions for bootloader and kernel
- ◆ Encryption of all security-relevant partitions via hardware
- ◆ Signed read-only partition for firmware and applications
- ◆ Writeable partition for storage of user parameters
- ◆ Hardened ECOS Secure Linux operating system
- ◆ Digitally signed bootloader, firmware and applications with chain of trust verification
- ◆ Securing all processes via smartcard, e.g. Easy Enrollment, gateway logon, SBS update
- ◆ Integrated firewall as protection against attacks within the same network and blocking of ping request
- ◆ Encryption of RAM content except for the executable program code
- ◆ VM start detection prevents use in virtual environment
- ◆ Fingerprinting of guest computer incl. peripherals
- ◆ Instant logout on stick disconnection
- ◆ Secured updating process for firmware and applications with verification of integrity and correct update server

Connection, dimensions and scope of delivery

- ◆ USB-A | C - 28 x 85 x 14 mm - 72g
- ◆ ECOS SecureBootStick ZX, carrying strap, 2 connection cables for USB A and C