CyberFence

Overview

Ultra's CyberFence products are specifically designed to protect vulnerable edge-devices, including **IoTs, IoMTs, IIoT**, without disrupting network operations in critical infrastructure and tactical communications systems used by military, government, and industrial customers.

CyberFence products offer **multi-layer security** by including IPsec/IKEv2 based VPN and VLAN encryption. The VPN product is certified by Microsoft Azure Cloud and fully interoperable with AWS and Google Cloud VPN. The VLAN encryption uses AES-256 bits key to safeguard LAN data thus greatly reducing the cyber-attack surface. The products are built to protect industrial control systems (ICS) by implementing deep-packet-inspection (DPI) on several industrial control protocols. All CyberFence products pass stringent US government certifications such as NIST FIPS 140-2 level 2, NIAP's Common Criteria and DISA DoDIN-APL.

Security Features
- Layer 2, Layer 3 or high-speed encryption and decryption
- Access control functions
- Deep packet inspection (DPI), can currently support BACnet, Modbus TCP, OPC, EtherNet/IP and DNP3 control protocols and inbound commands, as well as their origin
- Secure authenticated key distribution

Security
- AES 256, 192, & 128 bit (CCM, CBC, ECB)
- HMAC SHA-1/2 per-packet hashing

Certifications
- Common Criteria certified: Network Device collaborative Protection Profile (NDcPP) Version 2.1
- FIPS 140-2 Level 2 validated
- DoDIN APL
- FCC Part 15.107/109 unintentional emissions, class A
- MIL-STD-167-1A, Type 1
- MIL-STD-810E, Method 514.4, Category 8 - Ground Mobile
- MIL-STD-810E, Method 507.3, Procedure III - Aggravated

Mechanical
- Din rail mount
- 4.12"x 4.37"x 1.42"
- 11.0 oz

Environmental
- Operational temperature: -40° to +70° C
- Storage temperature: -40° to +85° C
- MIL-STD-167A
- MIL-STD-810E
- FCC Part 15 Class A

Interfaces
- (4) Ethernet 10/100/1000 BASE-T ports:
  - Encrypted black port
  - Unencrypted red port
  - Configurable Auxiliary Port
  - Local management port

Power
- Power over Ethernet (POE) through Black or Red port
- 20-50 VDC power input
- Power consumption < 8 watts

Performance
- > 150 Mbps encrypted throughput
- Up to 32 encrypted VLAN portals

LED Indicators
- Power
- Test
- Alarm
- Data activity
- Keyed
- Diagnose

Device Management
- Web Server / HTTPS

Tools & Utilities
- Over the network firmware upgrade
- Over the network re-key
- Remote and local device reboot
- Secure zeroization to factory default state

Options
- Application-layer firewall with *DPI license

Product Capabilities

Capability	Encrypt	Mbps	FIPS 140-2 Level 2	Common Criteria	DoDIN APL	Suite B Cap.	802.1X	DPI*	Firewall
Layer-2 VLAN Encryption	V-LAN	˜120	X	X	X	X		X	X
Layer-3 VPN Encryption	VPN	˜120	X	X	X	X	X	X	X
Deep Packet Inspection		˜120	X	X	X			X	X
High Speed VLAN Encryption	V-LAN	˜450	X	X	X	X			

Deep packet inspection (DPI) can currently support BACnet, Modbus TCP, OPC, EtherNet/IP and DNP3 control protocols and inbound commands, as well as their origin.

Contact us or schedule a demo:

sales@ultra-us-gbs.com

1-800-449-3384

www.ultra.group

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