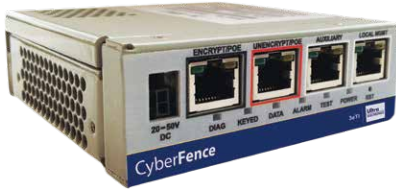




# CyberFence CIP

## Cybersecurity for Industrial Operations



3eTI's CyberFence CIP (critical infrastructure protection) products are designed to safeguard operational technology (OT) networks and are easily embed into industrial automation and control systems to shield critical infrastructure against cyber-attacks without interruption. We understand that cybersecurity is essential in today's turbulent environment — that's why our CyberFence CIP devices are independently validated for robustness by widely-recognized global standards bodies, government and military agencies. CyberFence CIP surpasses basic firewall, perimeter and signature-based defense, extending protection to SCADA and other networked system endpoints using protocol-specific parsing and whitelisting to assure data integrity. CyberFence CIP assures that only you maintain control and visibility of your critical devices. Unlike competitors, designed for general enterprise applications, our devices are specifically designed to provide strong cryptographic defense-in-depth protection for critical infrastructure and tactical communication systems used by military, government and industrial customers.

### 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 1.0
- FIPS 140-2 Level 2 validated
- 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
- SOAP Web-service via UltraVision

### 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 COMPARISON

Solutions	Type	DPI*	Firewall	Encrypt	Mbps	FIPS 140-2 Level 2	Common Criteria	Suite B Cap.	802.1X	Out-Band Mgmt	Dark View Tech.
<b>DarkNode</b>	FIPS Layer-2 DID Crypto	X	X	V-LAN	~120	X	X	X		X	X
<b>EtherGuard</b>	FIPS Layer-3 DID Crypto	X	X	VPN	~120	X	X	X	X	X	
<b>EtherWatch</b>	SCADA Firewall	X	X		~120	X	X			X	X
<b>UltraCrypt</b>	High Speed Encryption			V-LAN	~450	X	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.



**3eTI**