



EKC-10G

ETHERNET CRYPTO DEVICE



YOUR SECURITY, SPEED, AND CONTROL!

EKC-10G

LAYER-2 ENCRYPTOR

Ethernet Crypto Devices provide secure communication between Secure Ethernet Networks through insecure Layer-2 Ethernet Networks.

TECHNICAL SPECIFICATIONS	
Primary Applications	Data center interconnectivity Secure connectivity for operational continuity and disaster recovery Secure data connectivity for Active-Active systems
Communication Protocols	IEEE 802.3 Ethernet (Layer-2) VLAN Tag Encrypt/Bypass feature
Performance	10 Gbps full-duplex (20 Gbps aggregate) Provides line-rate performance for all frame sizes Low latency < 30us
Security	Data confidentiality up to "CONFIDENTIAL" level COMSEC approval Authentication Data integrity Replay attack prevention Tamper protection with or without power Emergency erase button Emergency erase via local console Smart card based Crypto Ignition Key (CIK)
Security Protocols	MACSec(IEEE 802.1AE) based customized protocol Provides transparent security for all protocols over Layer-2
Algorithms	Approved encryption and authentication algorithms for "SECRET" level Hardware-based implementation Support for National algorithm
Access Security	Two-factor authentication (Smart card and password) Different user privilege levels (administrator, viewer, etc.)
Key Management	Manuel key support Key loading with smart card Key retention during power outages
Network Interfaces	10 GbE (10 Gigabit Ethernet) Copper or Fiber Long and short reach optics
Monitoring	Event logging Alarm logging Operation logging Power-Up and On-Demand BIT
User Interface	User-friendly menus with guided help support Local management serial console Audible alarms and indicator LEDs External user replaceable battery
Device Management	Command-based configuration via local management (console) User-friendly command set Configuration Backup and Restore Software upgrade over network
Power Supply	150-264 VAC, 47-63 Hz. Power consumption < 200 W
Environmental Conditions	Operating temperature: 0°C to +45°C Storage temperature: -20°C to +65°C Relative humidity: 90% at +40°C
EMI/EMC	MIL-STD-461E/F
TEMPEST	MST 401-1 (B) (Level A) and SDIP-27/2 (Level A)
Physical Specifications	Weight < 10 kg 19" Rack mountable Dimensions: 443mm(W)x411mm(L)x50mm(H)

