



EtherCrypt U1000

High Performance L2 Encryptor

EtherCrypt U1000 is a layer-2 encryptor that protects the transmission of sensitive data over 1Gbps Ethernet and Metro-Ethernet networks. It offers full duplex encryption up to 1Gbps using the AES-256 algorithm, and is suitable for point-to-point, point-to-multipoint and fully-meshed Ethernet networks.

It can be easily deployed into existing networks without any changes to the network configuration and supports unicast, multicast and broadcast Ethernet frames. Designed to the strictest security standards, EtherCrypt U1000 includes a tamper-resistant chassis, emergency erasure and active zeroization. It also incorporates a FIPS 140-2 level 3 certified secure platform module – TrustCrypt for secure key storage and cryptographic processing.



EtherCrypt U1000

Key Features

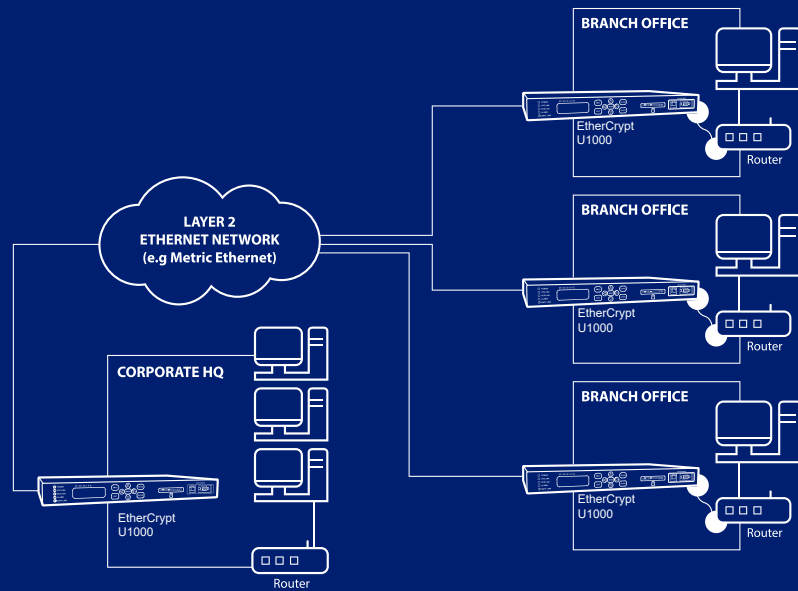
High-assurance encryptor

1Gbps throughput

Over Temperature Detection

Emergency Erasure Button

Deployment Use Cases



Specifications

	Performance	- Full duplex operation at speeds up to 1Gbps
	Network Interfaces	- Network: Ethernet II, IEEE 802.3 - Gigabit Ethernet ports with SFP interface (single mode, multi mode and copper)
	Cryptography	- AES 256 CFB mode - supports customized algorithm
	Key Management	- DigiSAFE proprietary key management - Parameter loading using smartcard - Automatic and transparent session key negotiation
	Device Management	- Local console port (9 pins D serial port) - 100 Base-T RJ45 Ethernet port – for remote monitoring - SNMP V2c (operates with standard SNMP network management station)
	Physical Security	- Emergency erasure function - Tamper resistant chassis - Active zeroization of cryptographic data upon tamper detection. - User PIN protected Front Panel Menu
	Operating Environment	- Operating Temperature: 0°C to 40°C - Relative Humidity: 0 to 90% - Storage Temperature: -20°C to 65°C - Meets FCC Part 15, Class B EMI/RFI requirements
	Physical Characteristics	- Tamper resistant chassis - Tamper detection and response (FIPS 140-2 Level 3) - Active zeroization of cryptographic data upon tamper detection - User PIN protected front panel menu - High temperature detection - Emergency erasure button
	Network Features & Protocols	- Supports Ethernet Layer 2 encryption - Point-to-point, point-to-multipoint, multipoint-to-multipoint meshed networks - Unicast, multicast and broadcast Ethernet frames
	Security Configuration	- Automated power-up self tests - Alarm/Audit log messages stored in memory with date and time - LED indicators for link status monitoring - Front Panel Menu-driven setup - Battery Backup of cryptographic variables
	Accreditation	- DigiSAFE TrustCrypt – FIPS 140-2 level 3 certified cryptographic module (certificate #1304)
Optional	Key Management System (KMS)	- Windows-based software system for key exchange parameter generation
	Smartcard	- Configuration card for user authentication and cryptographic key parameters
	Feature	- Supports customized algorithm loading feature

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