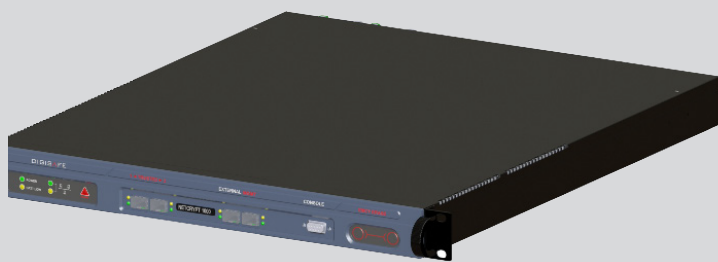# NetCrypt U2000

High Performance IP Encryptor

NetCrypt U2000 is a high performance IP encryptor that enables the user to leverage on public Ethernet/IP infrastructure to connect to multiple sites in a secure manner. NetCrypt U2000 employs AES algorithm for data confidentiality, Secure Hash Algorithm (SHA) for integrity protection as well as Internet Key Exchange (IKE) protocol for keys derivations and authentications. The built-in Firewall performs packet filtering and supports NAT/PAT features.

Supporting up to 800 tunnels with a maximum encrypted throughput of 1Gbps, NetCrypt U2000 is ideal for deployments as a security gateway in a corporate LANs, site-to-site VPN and site-to-site wireless inter-offices connectivity.

With the flexibility to use industry standard Simple Network Management Protocol (SNMP) network management system, NetCrypt U2000 allows local and remote monitoring of devices, and firmware field-upgrading to ease new features introduction, algorithm updates and maintenance.

NetCrypt U2000

Key Features

High-assurance IP encryptor with Firewall capabilities

1Gbps throughput aggregate

IPSec standards-based encryption, authentication, digital certificates and key management

Supports AES algorithm for data confidentiality

Supports 800 concurrent IPSec tunnels

Easy deployment in existing network environment

19" rack mountable

Empowering thru' Innovation

ST Engineering
Electronics

Specifications

Network Interfaces	Trusted LAN 1, Trusted LAN 2, External and Management (4 x Gigabit ports):
	  - Fiber optic: LC connector, multi-mode/single-mode
	  - Copper: Ethernet RJ45

Networking Features & Protocols	- IP Security/Encapsulating Security Protocol - Support Layer 2 and Layer 3 encryption capability - IP Compression - QoS support - Traffic flow confidentiality
High Availability Features	- Failover (Active/Passive mode) - Load Balancing (Active/active mode) - Priority Based Redundant Secure Nodes
Authentication	- Pre-shared Key - RSA Public Key Signature (up to 4096 bit)
Key Management	- Support Internet Key exchange (IKEv2) - DH supports up to 8192 bit - Supports ECDH (up to P-521 bit) - Group Transport Protection: The device has the option of providing encryption and data integrity protection to all key exchange traffic including the initial key exchange traffic
Encryption Algorithm/ Modes	- AES-CBC (256 bit)
Hash Algorithm	- HMAC-SHA1 - HMAC-SHA2 (256, 384, 512 bit)
Performance	- Zero-loss encrypted throughput up to 1Gbps, aggregated (depending on IP packet size and used encryption mode) - Support 800 concurrent IPSec tunnels
Management	Interfaces - Fiber optic/RJ45 (remote management and local configuration) - RS232 local console interface Security/Configuration - Extensive audit logging - Alarm detection and logging - SNMP v2c network management (operates with standard SNMP network management station) - Supports up to 3-factor authentication
Security Features:	- Tamper-resistant chassis - Anti-tamper detection and response
Physical Characteristics:	- Dimensions: 44mm(H) x 430mm(W) x 511mm(D) - Redundant Hot-Swap PSU: 110/240VAC @ 50/60 Hz Auto-ranging - Power Rating: 300W max - Weight: 10 KG
Environmental:	- Storage Temperature: -20ºC to 70ºC - Operating Temperature: 0ºC to 40ºC - Humidity: Relative 95%, non-condensing
Regulatory:	- EMC/EMI: FCC Part 15 Class B
Optional Feature:	- Supports customized algorithm loading feature