

DigiSAFE NetCrypt 500

High Assurance IP Encryptor

DigiSAFE NetCrypt 500 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 500 employs 3DES and AES algorithms for data confidentiality, Secure Hash Algorithm (SHA) as well as Internet Key Exchange (IKE) protocols for integrity protection and user authentication. The built-in Firewall performs stateful inspection, packet filtering and supports NAT/PAT features.

Supporting up to 500 tunnels with a maximum encrypted throughput of 800Mbps, NetCrypt 500 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 500 allows local and remote monitoring of devices, and firmware field-upgrading to ease new features introduction, algorithm updates and maintenance.



Key Features

- High-assurance IP encryptor with Firewall capabilities
- 800Mbps throughput aggregate
- IPSec standards-based encryption, authentication, digital certificates, and key management
- Supports AES, 3DES algorithms for data confidentiality
- Supports 500 concurrent IPsec tunnels
- Easy installation in existing network with 100/1000Mbps LANs
- 19" rack mountable

Technical Specifications

Network Interfaces

- Trusted and untrusted port: 3 x Ethernet RJ45
10/100/1000Mbps auto-sensing port
- Management port: 1 x 10/100/1000Mbps Ethernet RJ45

Networking Features & Protocols

- Supports IP, TCP, UDP, ARP, SNMP, ICMP
- IP Security/Encapsulating Security Protocol (IPSec/ESP)
- IP Compression
- QoS support
- Traffic flow confidentiality

Authentication

- Pre-shared Key
- RSA Public Key Signature (upto 4096-bits)

Key Management

- Internet Key Exchanged (IKE) v2
- DH support up to 8192bits

Encryption Algorithm

- 3DES-CBC (168 bits)
- AES-CBC (192,256-bits)
- Supports customized algorithms (optional feature)

Hash Algorithm

- HMAC-SHA1
- HMAC-SHA2 (256, 384, 512-bits)

Performance

- Zero-loss encrypted throughput up to 800Mbps
(depending on IP packet size and used encryption mode)
- Supports up to 500 concurrent IPsec tunnels

Management

- Interfaces
 - 10/100/1000 Ethernet
(remote management and local configuration)
 - RS232 local console interface
- Supports up to three-factor authentication

Security/Configuration

- Extensive audit logging
- Alarm detection and reporting
- SNMP v2c network management (operates with standard SNMP network management station)

Security Features

- Tamper-resistant chassis
- Anti-tamper detection and response

Physical Characteristics

- Dimensions: Standard 19-inch, 1U rack mount design
44mm(H) x 430mm(W) x 505mm(D)
- Power supplies: 110/230VAC @ 50/60Hz, auto ranging

Environmental

- Storage Temperature : -20°C to 68°C
- Operating Temperature: 0°C to 40°C
- Humidity : Relative 93%

Regulatory

- EMC/EMI : FCC Part 15 Class B

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