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CN1000 Fibre Channel Encryptor

Senetas CN1000 Fibre Channel encryptors are high performance encryption platforms that provide security of traffic between data centres. The platform is used to secure Storage Area Networks (SAN's) and supports data transfer at 1, 2, or 4 Gbps.

Key Features

- Full duplex line-rate encryption at 1, 2 or 4 Gbps without packet expansion
- Certified to Common Criteria EAL4+ security level
- Certified to FIPS 140-2 level 3 security requirements
- Bump in the wire design for easy installation
- Supports Single and Multimode optical interfaces
- Cut-through architecture for minimum latency
- Provides standards based certificates and key management
- Uses the secure AES encryption algorithm with a 256 bit key
- Hands-off automated key management
- Standards based trust model using X.509 certificate authentication
- Centralised CypherManager configuration and management system
- Tamper resistant and tamper evident enclosure

Common Criteria

FIPS VALIDATED 140-2 TM

Dual Accreditation

Overview

The CN1000 Fibre Channel encryptor addresses the needs of large enterprises that have a requirement to secure sensitive information within Storage Area Networks.

Latency is not effected by packet size and at 4 Gbps is 0.75 microseconds per unit.

Network and Management

CypherManager, the Senetas' element manager can be used to configure and manage the CN1000. Management connections are via an RJ45 connector on the front panel, and in addition a Command Line Interface connection is available via a DB9 RS232 serial socket. The local (protected) and network (unprotected) connections are made via multi-mode or single mode full-duplex SFP optical interfaces. Protocol standards include ANSI INCITS 352-2002, ANSI INCITS 404-2006, and ANSI INCITS 424-2007

Supported Networks

Direct Fibre links
Links with Fibre repeaters
GFP-T connections
GFP-F connections

Order codes:

CN1000-FC-1G	1Gbps Full Duplex
CN1000-FC-2G	2Gbps Full Duplex
CN1000-FC-4G	4Gbps Full Duplex

TM: A Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments

Specifications

Cryptography
AES encryption algorithm
CFB mode encryption
256 bit session and master keys

Key Management
Based on ATM Forum V1.1 security specification
X.509 certificate for authentication
RSA Public key Infrastructure
Periodic automatic key updates without traffic interruption
Master and Session keys

Performance
Full duplex point to point operation
Network interface for 1, 2 or 4 Gbps
Unit latency of 0.75 microseconds max at 4 Gbps

Management
CypherManager role based element manager
IPv4 and IPv6 support
Automatic encryptor discovery
SNMPv3 control, SNMPv1 monitoring
Out-of-band and Inband management
Alarm, Event, and Audit logs
SNMP traps and monitoring
RS232 local console (CLI)

Certification
FIPS 140-2 level 3
Common Criteria EAL4+

Front Panel
LED's for interface, security, temperature, alarms, power.
Two line 20 char LCD display
Keypad (0-9, and data entry/edit)
RJ45 and DB9 Management connectors

Rear Panel
SFP optical connector cages
IEC13 Power sockets

Installation
Size - 482mm (19"), 42mm (1U), 380mm (WxHxD)
Weight: - 6 Kg
0° to 40°C operating temperature
0 to 80% RH at 40°C operating

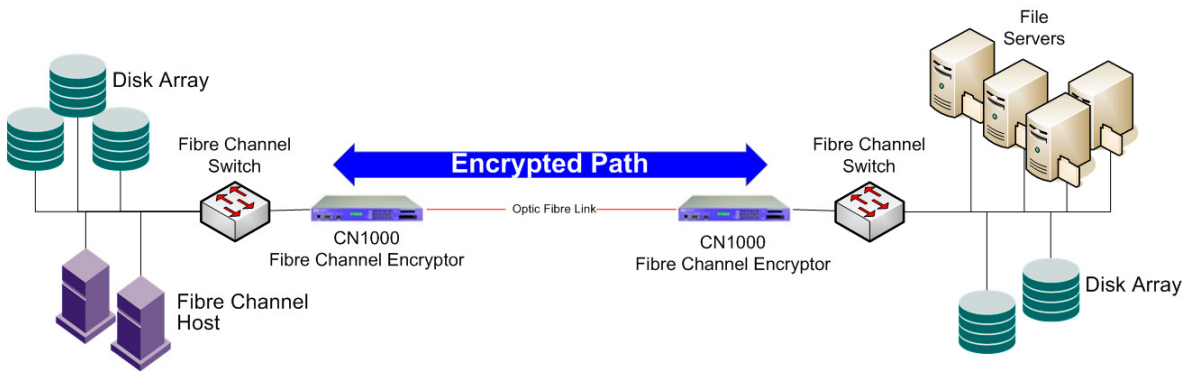
Shipping/Storage
Size - 560mm, 120mm, 430mm, (WxHxD)
Weight - 6.5Kg
Max temperature 40°C, 95% RH at 40°C

Physical Security
Tamper proof Key and user password storage
Tamper resistant metal case
Anti probing barriers

Power Requirements
90-240 VAC / 47-63 Hertz
40 watts

Regulatory
Emissions - FCC Part 15 Class B
RoHS compliant
Other - CE and N3912

All specifications are accurate as of the time of printing and are subject to change to meet the ongoing requirements of Senetas and its customers.



Typical SAN configuration

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