



Senetas CN1000 LINK encryptors are high performance encryption platforms that provide maximum security within T1/E1 networks or across protocol independent serial links. The system can be configured at speeds of 2.048Mbps.

Key Features

- Full duplex line-rate encryption at up to 2Mbps
- Supports E1, T1 or X.21 interfaces
- Certified to Common Criteria EAL4+ security level
- Certified to FIPS 140-2 level 3 security requirements
- Bump in the wire design for easy installation
- Cut-through architecture for minimum latency
- Selective encryption of each timeslot/group of timeslots (E1/T1)
- Choice of AES or DES encryption algorithms
- CFB mode encryption with synchronisation
- 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

Overview

The CN1000 provides users with flexible encryption that addresses the needs of the largest enterprises that have a requirement to secure sensitive information traversing the network.

The unit operates in full-duplex mode at full line speed without loss of packets.

Network and Management

CypherManager, Senetas' element manager can be used to configure and manage the CN1000 within the network. Management connections are via an RJ45 on the front panel, and in addition a Command Line Interface connection is available via a 9-pin D-Sub RS232 serial connector. The local (protected) and network (unprotected) connections are made via RJ45 and BNC interfaces.

Supported Networks

E1, T1, and X.21/V.11
Leased lines

Specifications

Cryptography

AES or DES/3DES encryption algorithms
256 bit session and master keys
CFB mode self synchronising encryption

Key Management

Automatic connection establishment
X.509 certificate authentication
RSA Public key Infrastructure
Periodic automatic key updates
Master and Session keys

Performance

Data rates to 2.048Mbps
Full duplex operation at all line speeds
Audit trail and Alarm/Event logs

Management

CypherManager element manager
IPv4 and IPv6 management support
Automatic encryptor discovery
SNMPv3 control, SNMPv1 monitoring
Out-of-band 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.
20 char LCD display
Keypad (0–9, and data entry/edit)
RJ45 Ethernet port for management
9-pin D-Sub RS232 port for serial console

Rear Panel

15-pin D-Sub (for X.21/V.11)
RJ45, or RJ48C (for E1 and T1)
IEC C14 Power Inlet

Installation

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

Shipping/Storage

Two units shipped in one box
Size: 570mm, 440mm, 280mm (WxHxD)

Weight: 14kg

Max temperature: 40°C, 95% RH at 40°C

Physical Security

Tamper proof key and user password storage
Tamper resistant/evident metal case
Anti probing barriers

Power Requirements

90–240 VAC / 47–63 Hertz
25 Watts

Safety

EN 60950-1 (CE)
AS/NZS 60950.1
(UL approval pending)

EMC (Emission and Immunity)

FCC Part 15 Class B
ICES-003 Class B
EN 55022 Class A (CE)
AS/NZS CISPR 22 Class A
EN 61000-3-2 (CE)
EN 61000-3-3 (CE)
EN 61000-6-1 (CE)

Environmental

RoHS Compliant

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.

