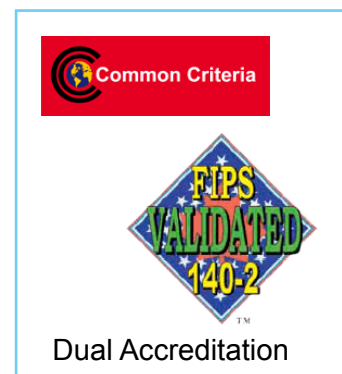


## CN3000 10G Ethernet Encryptor

**Senetas CN3000 10Gbps Ethernet** encryptors are high performance encryption platforms that provide maximum security within modern Ethernet networks. The system supports the layer 2 protocol and can be configured for point to point or multipoint operation.

### Key Features

- Full duplex line-rate encryption at 10 Gbps
- Cut-through architecture for minimum latency
- Supports Unicast and Multicast traffic
- Supports Line or Multipoint connections
- Certified to Common Criteria EAL4+ security level
- Certified to FIPS 140-2 level 3 security requirements
- Bump in the wire design for easy installation
- Conforms to IEEE802.3 specifications
- Provides standards based certificates and key management
- Uses the secure AES 256 bit encryption algorithm
- Counter mode encryption with synchronisation
- VLAN, MPLS transparency allowing flexible configuration
- 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
- Network connections via selectable XFP modules
- Interoperable with Senetas CS10, CS100 and CN1000 Ethernet encryptors



### Overview

The CN3000 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 system can be used to secure point to point links or used in a meshed network of up to 63 interoperable units.

The unit operates in full-duplex mode at full line speed without loss of packets. Latency is not effected by packet size and is less then 7.5 microseconds per unit.

### Network and Management

CypherManager, Senetas' element manager can be used to configure and manage the CN3000 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 DB9 RS232 serial connector. The local (protected) and network (unprotected) connections are made via XFP optical interfaces. Support for Ethernet 802.3 and VLAN 802.1Q standards is provided.

#### Supported Networks

Ethernet II 802.3  
Ethernet over MPLS  
Carrier Ethernet  
VLAN/MPLS transparency

### Order codes:

CN3000-ETH-10G      10Gbps Full Duplex



## Specifications

### Cryptography

- AES encryption algorithm
- 256 bit session and master keys
- Counter mode encryption

### Key Management

- ATM Forum V1.1 specification
- X.509 certificate authentication
- RSA Public key Infrastructure
- Periodic automatic key updates
- Master and Session keys

### Performance

- 10Gbps Full Duplex
- Supports Unicast and Multicast traffic
- Latency of 7.5 microseconds max

### Management

- CypherManager element manager
- IPv4 and IPv6 management 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.
- 20 char LCD display
- Keypad (0-9, and data entry/edit)
- RJ45 and DB9 Management connectors

### Rear Panel

- XFP optical connector cages
- IEC13 Power socket

### Installation

- Size - 482mm (19"), 133mm (3U), 380mm (WxHxD)
- Weight: - 9 Kg
- 0° to 40°C operating temperature
- 0 to 80% RH at 40°C operating

### Shipping/Storage

- Size - 570mm, 240mm, 480mm, (WxHxD)
- Weight - 12Kg
- Max temperature 40°C, 95% RH at 40°C

### Physical Security

- Tamper proof Key storage
- Tamper resistant/evident metal case
- Anti probing barriers

### Power Requirements

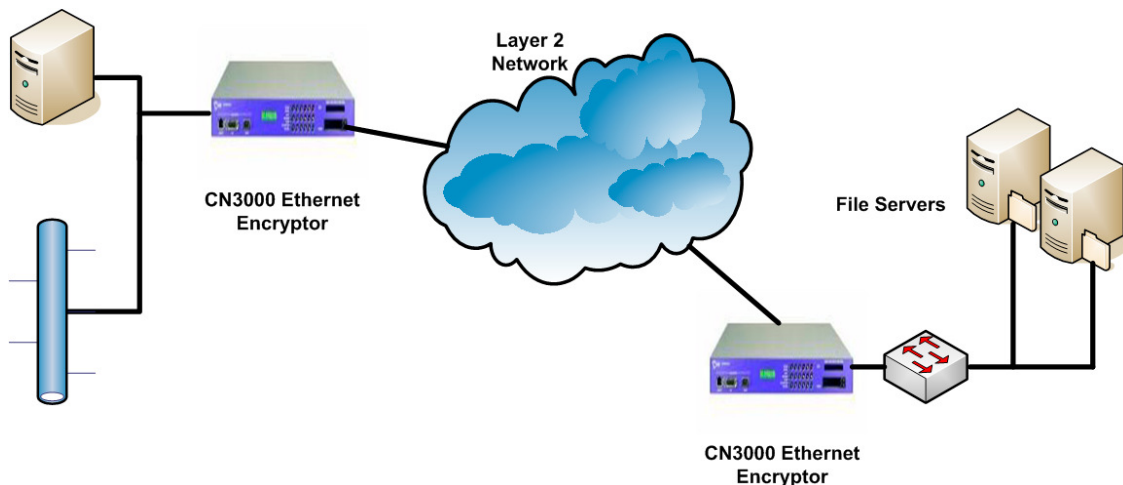
- 90-240 VAC / 47-63 Hertz
- 120 watts

### 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.



Network example