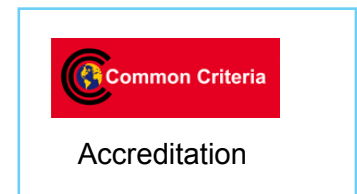


CS10 Ethernet Encryptor

Senetas CS10 Ethernet encryptors are flexible encryption platforms designed as desk top systems that can be integrated into modern Ethernet networks. The units can encrypt either layer 2 (Ethernet) or layer 3 (IPSec) protocols and can be configured for point to point or multipoint operation at speeds of up to 10 Mbps.

Key Features

- Full duplex encryption at up to 10 Mbps
- 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 Line or Multipoint connections
- Conforms to IEEE802.3 specifications
- Uses the secure AES 256 bit encryption algorithm
- Supports SEED, Aria, Camellia and custom algorithms
- Self synchronising CFB mode minimises traffic disruption
- 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
- Interoperable with Senetas CS100 and CN1000 Ethernet encryptors
- Switchable between layer 2 and layer 3 (IPSec) modes. IPSec mode implements ESP tunnel



Overview

The CS10 provides users with flexible encryption that addresses the needs of small to medium sized organisations that have a requirement to transfer sensitive information between branch offices. The units can be used to secure point to point links or used in a meshed network of up to 509 interoperable units.

The unit operates in full-duplex mode at full line speed. Latency is a function of transmission speed and packet size is typically 1-5 milliseconds.

Network and Management

CypherManager, Senetas' element manager can be used to configure and manage the CS10 within the network. The unit can operate as a layer 2 Ethernet encryptor or as a layer 3 (IPSec) device. Management connections are via an RJ45 on the rear panel, and in addition a Command Line Interface connection is available via a DB9 RS232 serial connector. The local (protected) and network (unprotected) 10/100Base-T connections are made using CAT5 cables with RJ45 connectors. 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
Alternate IPSec mode

Order codes:

CS10-AU Australia/New Zealand
CS10-IN International



Specifications

Cryptography

- AES encryption algorithm
- 128 or 256 bit session keys
- Self synchronising CFB mode
- 256 bit master keys
- Optional algorithms (SEED, Aria, Camellia, custom)

Key Management

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

Performance

- Auto-negotiation of line speed
- Speed of up to 10Mbps
- Latency 5 milliseconds (typical)

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

- Common Criteria EAL4+

Front Panel

- LED's for interface, security, temperature, alarms, power.

Rear Panel

- RJ45 Local and Network connectors
- RJ45 and DB9 Management connectors
- Plug pack socket

Installation

- Size - 185mm, 42mm, 160mm (WxHxD)
- Weight: - 630 gram
- 0° to 40°C operating temperature
- 0 to 80% RH at 40°C operating

Shipping/Storage

- Size - 350mm, 180mm, 280mm, (WxHxD) - 2 units
- Weight - 1.2Kg (1 unit) - 2.0Kg (2 units)
- Max temperature 40°C, 95% RH at 40°C

Physical Security

- Tamper proof Key and user password storage
- Tamper resistant/evident case
- Anti probing barriers

Power Requirements

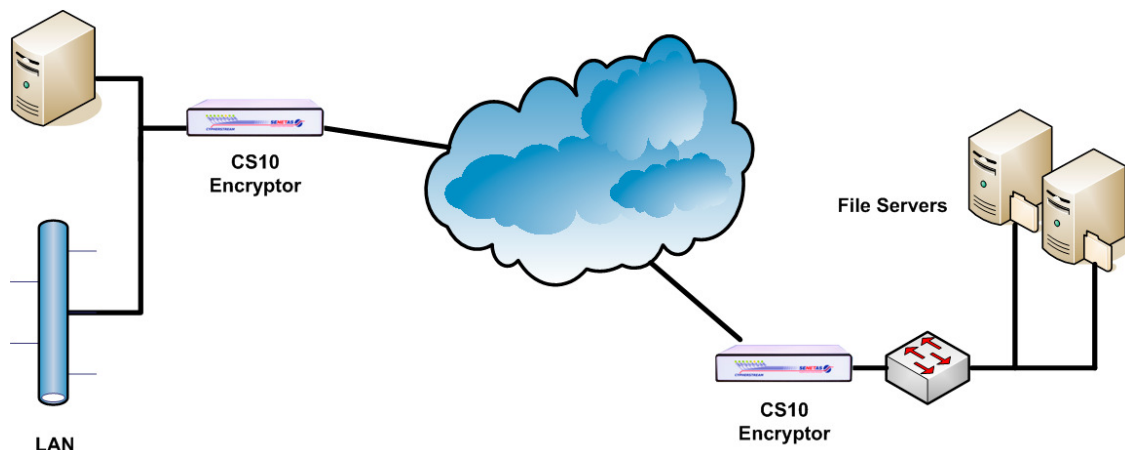
- 90-240 VAC / 47-63 Hertz Plug pack (7-20 VDC)
- 6 watts (20 watts maximum)

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