SENETAS

Mission ready encryption

BUILT FOR THE TACTICAL EDGE

Designed for edge deployments, the CN7108 delivers quantum-resistant, crypto-agile encryption at up to 1 Gbps—protecting data today and into the post-quantum future. This rigid and durable, industrial-grade hardware is FIPS 140-3 certified and MIL-STD-810G compliant. Its fanless chassis with passive cooling and solid-state reliability ensures consistent performance in extreme temperatures and harsh environments. SWaP-optimized, the CN7108 delivers secure communications to the tactical edge, making it well suited for defence and critical infrastructure.

The CN7000 series delivers three pillars of high-assurance encryption: **Crypto Agility** – ensuring long-term security through support for evolving encryption standards; **Platform Agility** – enabling flexible deployment across IT and OT environments, across rugged and industrial platforms; and **Network Agility** – providing efficient, low-overhead encryption across layers 2-4, delivering secure, seamless connectivity for any topology.

Product highlights

Military specification Grade Hardware

Operates from –40 °C to +85 °C (–40 °F to 185 °F). MIL-STD -810G compliant.

Certified and Quantum-ready architecture

FIPS-140-3 certified, support for NIST PQC standards.

High Reliability

Engineered for maximum uptime and network availability.

Key Management

Delivers automated, secure key management for all network environments.

Custom Ciphers

Build your own custom or sovereign encryption algorithms with our flexible Cryptographic SDK.

Encryption Modes

Versatile network security protects any network set up. LINE and VLAN modes deliver seamless L-2 encryption with dedicated keys for every VLAN.

Transport Independent Mode (TIM)

Encryption across any WAN including Internet, MPLS, Satellite and Cellular transports.

Engineered for Interoperability

Interoperable with all Senetas network encryptor models.

Key specifications

MAXIMUM SPEED

- Up to 1 Gbps encrypted throughput

SECURED NETWORK

- RJ45, 1 Gbps copper

CRYPTOGRAPHIC SECURITY

- AES-128/256 encryption, GCM/CTR modes
- X.509 RSA and ECC certificates
- FIPS 140-3 Level 1 (CE Crypto Module)
- Quantum resistant hybrid encryption using latest ML-KEM, ML-DSA standards. Automatic key management
- Custom Ciphers with Cryptographic SDK (CSDK)

ETHERNET

- 2 x Gigabit Ethernet traffic ports (Local/Network)
- 2 x Gigabit management ports (LAN/AUX)
- CPU: Quad-core Intel Processor

MANAGEMENT

Central configuration and management with Senetas CM7 Network Manager (CM7). Supports Syslog, NTP. SNMPv1 read only monitoring SNMPv3Q for quantum-safe management. Alarm, event and audit logs. USB port for firmware upgrade. Serial console port with SSH access

POWER

Input Power: 9V – 42V, up to 3.33A DC input. Connector: 5.5mm power jack w/locking. Power supply unit including universal AC wall mount

ENVIRONMENTAL

- Operating: -40°C to 85°C (40°F to 185°F)
- Humidity: 5% - 95% non-condensing
- Shock and Vibration: Complies to MIL-STD-810G

PHYSICAL

- Fanless, passive cooling
- Weight: 420 grams (14.81 ounces)
- Dimensions: 132.8mm (W) x 100mm (D) x 34.8mm (H) [5.23" (W) x 3.94" (D) x 1.37" (H)]
- The unit is tamper-evident

PANELS

- Front: 2 x USB Type-A . 1 x 5.5 mm Power jack. 2 x RJ45 (Device management)
- Side: 2 x RJ45 Ports Local (protected-side) & Network (unprotected-side)
- Rear: Power button, 2 x USB Type-A. LED

SWAP

Optimized for Size, Weight and Power in-vehicle and mobile deployments

CN7108

senetas.com

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