



Engineered for in-vehicle extremes

MILSPEC ENCRYPTION YOU CAN RELY ON

Designed for mission-critical and tactical deployments, the CN7107 delivers quantum-resistant, crypto-agile encryption at up to 1 Gbps—protecting data today and into the post-quantum future. Its MIL-STD-810G-compliant, FIPS 140-3 certified, ruggedized, fanless chassis with passive cooling and solid-state reliability withstands extreme temperatures and harsh environments. SWaP-optimized, it's ideal for in-vehicle use, tactical and emergency vehicles, mobile command centres, and ruggedized commercial or industrial applications.

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 $+70^{\circ}\text{C}$ (-40°F to 158°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

Supports Ethernet and IP Encryption modes for use on point-to-point, hub-spoke or full-mesh topologies.



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

- M12 X-coded, IEEE 802.3 Gigabit PoE+ (25.5W)

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

- 4x Gigabit Ethernet ports via M12 x-coded connectors
- In compliance with IEEE 802.3 at PoE+ PSE, maximum 25.5W output on single PoE+ port. Total PoE+ power budget: 100W. Local (red). Network (black). Management (LAN). Management (Auxiliary Management)

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: 120W, 20V/6A. Optional CN7000-PA-120-OW power supply or for in-vehicle applications, directly from the host environment. Connector: 5.5mm power jack w/locking. Damping bracket. Wall mount (optional)

ENVIRONMENTAL

- Operating: -40°C to 70°C (40°F to 158°F)
- Humidity: 10% - 90% non-condensing
- Shock and Vibration: Complies to MIL-STD-810G

PHYSICAL

- Fanless, passive cooling
- Weight: 1.9kg (4.18 lb)
- Dimensions: 205 mm (W) x 155 mm (D) x 58 mm (H) [8.07" (W) x 6.10" (D) x 2.28" (H)]
- Factory installed Tamper Evident Seals
- Active Tamper Detection Circuitry
- Recessed Pinhole Switch with Automatic Key Zeroisation

PANELS

- Front: 2 x M12 X-coded Ports Local (protected-side) & Network (unprotected-side), 2 x M12 X-coded (Device management), Power supply
- Rear: 3 x USB Ports, 2 x Serial Port, LED Indicators

SWAP

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

CN7107



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