



# 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  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $158^{\circ}\text{F}$ ). 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)]
- The unit is tamper-evident

## 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



## Senetas Corporation Limited

312 Kings Way, South Melbourne, VIC 3205, Australia | T +61 03 9868 4555 | E info@senetas.com | ABN 33 006 067 607

senetas.com

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