



Built for harsh deployments and in-vehicle extremes

ENCRYPTION YOU CAN TRUST

Designed for mission-critical and tactical deployments, the CN7105 delivers quantum-resistant, crypto-agile encryption at up to 1 Gbps—protecting data today and into the post-quantum future. Built on rugged IP67-rated hardware and MIL-STD-810G compliant, the fanless chassis features passive cooling and solid-state reliability — ensuring performance in extreme temperatures and harsh environments. SWaP-optimized, it's ideal for in-vehicle use, tactical and emergency vehicles, mobile command centres, and rugged 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 ECC, ML-DSA, ML-KEM certificates
- FIPS 140-3 Level 1 (CE Crypto Module)
- Quantum resistant hybrid encryption
- Automatic key management
- Custom Ciphers with Cryptographic SDK (CSDK)

ETHERNET

- 4x Gigabit Ethernet ports via M12 x-coded connectors
- 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: 160W, 20V/8A.

Optional: CN7000-PA-160-OW power supply -30° to 70°C (-22° to 158°F)

DC Input: 8V to 48V DC input (M12 S-coded)

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: 5.8kg (12.78lb)
- Dimensions: 220mm (W) x 310mm (D) x 90.5mm (H) [8.66" (W) x 12.20" (D) x 3.56" (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), 2 x USB 2.0 (A-coded), 2 x COM (A-coded), 8 to 48V DC IN (S-coded), Power button
- Rear: No connectors

SWAP

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

CN7105



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01122025