SENETAS



Securing communications

MILITARY AIRCRAFT & MOBILE AUTONOMOUS PLATFORMS

The Senetas CN7000 Series is a sovereign-grade, quantum-ready network encryption platform. Built on COTS hardware with a proven FIPS-grade encryption stack, it is purpose-built for high-speed protection of sensitive mission data across mobile military assets and distributed command nodes.

Key applications at the tactical edge

The CN7000 is the ideal platform for securing tactical networks that involve mobile units and frequent topology changes.

- **UAV telemetry and control:** Encrypt real-time sensor data, video feeds, and command-and-control telemetry from airborne autonomous platforms back to ground stations.
- **Tactical aircraft communications:** Protect sensitive voice and data links for mobile platforms (such as fixed-wing aircraft or in-vehicle computing systems) operating reliably in harsh environmental conditions.
- **Cross-domain connectivity:** Secure communications across hybrid tactical-core network topologies, fully interoperable with CN4000, CN6000, and CN9000 Series encryptors used in core infrastructure.

Built for the Extreme Environment

Military aircraft applications demand a hardware solution that operates reliably outside of standard data center environments. The CN7000 is a hardened COTS platform built for this challenge.

Capability	Detail
Durability	Complies with MIL STD 810G standards for shock and vibration resistance.
Temperature	Supports wide temperature range operations: –40°C to 70°C (CN7105, CN7107) and –40°C to 85°C (CN7108).
Ingress Protection	Ruggedized protection against moisture and dust: IP67 water- and dust-proof option (CN7105) or IP65 ruggedized (CN7107).
Power Resilience	Features a built-in SuperCap UPS to ensure operational reliability even in unstable power environments.
Performance	Each variant encrypts at 1 Gbps.

Simple deployment and centralized control

The CN7000 deploys inline (bump-in-the-wire) to secure data entering untrusted public networks.

- **Centralized management:** Manage via the CM7 remote platform or Command Line Interface (CLI).
- **Secure Remote Access:** Remote CLI access uses SSH; CM7 communicates via secure SNMP over SSH.
- **Robust Authentication:** Role-based access control (RBAC) supports multiple administrator roles with password and X.509 certificate authentication.
- **Secure Activation:** Initial setup uses two-stage hash verification between CM7 user and remote operator, preventing human-in-the-middle attacks.

Operational benefits for military applications

The CN7000 platform provides core advantages for military aircraft applications:

- **Security at the tactical edge:** Ruggedized, fanless, MIL-STD 810G hardware encryption beyond secure facilities. Deployed in Autonomous Warrior trials for resilient tactical edge communications.
- **Resilient connectivity:** Transport Independent Mode (TIM) ensures encrypted communication across unstable or diverse IP WANs and fluctuating network conditions.
- **Sovereign crypto requirements:** Cipher Software Development Kit (CSDK) enables deployment of bespoke, “customer eyes-only” symmetric ciphers aligning with national or proprietary standards.
- **Future-proof security**: Supports hybrid Post-Quantum Cryptography (PQC) and Quantum Key Distribution (QKD), mitigating future quantum threats and ensuring long-term data protection.





About us

Senetas is an Australian defense technology company with 25+ years delivering certified network encryption to governments, militaries, and critical infrastructure operators across 60+ countries. Certified under Common Criteria, FIPS 140-3, US DoDIN APL, and NATO. Quantum-ready, NIST PQC-compliant, and delivered globally through strategic partner Thales.

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