CN6010

SENETAS

Certified 1Gbps encryption, compact and cost-effective

The **CN6010** brings defence-grade, certified encryption within easy reach of “encrypt everywhere” deployments. It combines full line-rate Layers 2, 3 and 4 encryption at 1Gbps, ultra-low latency and centralised management in a compact, tamper-resistant 1U platform.

Product highlights



Certified 1Gbps encryption

Full-duplex, line-rate Layers 2,3 and 4 encryption for compact deployments.



Low-latency performance

FPGA-based architecture with latency below 10µs at 1Gbps.



High assurance security

FIPS 140-3 Level 3, Common Criteria, DoDIN APL and NATO certified.



Crypto-agile and quantum-ready

Supports PQC certificates, optional QRNG and third-party QKD.



Flexible connectivity

Supports point-to-point, hub-and-spoke and meshed topologies.



Operational Agility

CM7 management simplifies configuration and monitoring.

Built for secure, scalable deployment



Performance agility

Full line-rate encryption with ultra-low latency.



Deployment agility

Compact 1U design for varied network topologies.



Operational agility

CM7 management simplifies configuration and monitoring.

Key specifications

MAXIMUM SPEED

- 1Gbps

PHYSICAL INTERFACES

- One physical encryption channel RJ45 SFP
- RJ45 and SFP interface support
- Two SFP transceivers
- Front-panel access for all interfaces

NETWORKING AND TOPOLOGY

- Encrypts unicast, multicast and broadcast traffic
- Protocol and application transparent
- Jumbo frame support
- Point-to-point, hub-and-spoke and mesh topologies
- Automatic network discovery and connection establishment

PERFORMANCE AND POLICY

- Low-overhead, full-duplex, line-rate encryption
- FPGA-based cut-through architecture
- Latency below 10µs
- Policy based on MAC address, VLAN ID address and/or TCP/UDP port numbers

SECURITY

- AES-128 and AES-256 encryption
- CFB, CTR and GCM modes
- Automatic and self-healing key management
- Flexible encryption policy engine

MANAGEMENT

- Centralised configuration using Senetas CM7
- Remote management via SNMPv3
- Support for X.509 certificate authorities
- In-field firmware upgrades

RELIABILITY

- Dual swappable AC or DC power supplies
- User-replaceable fans and battery modules
- Tamper-resistant and tamper-evident enclosure
- Anti-probing barriers

INTEROPERABILITY AND CERTIFICATIONS

- Interoperable with CN and CV Series encryptors
- FIPS 140-3 Level 3 certified
- Common Criteria certified EAL2+. (EAL4+ in process)

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