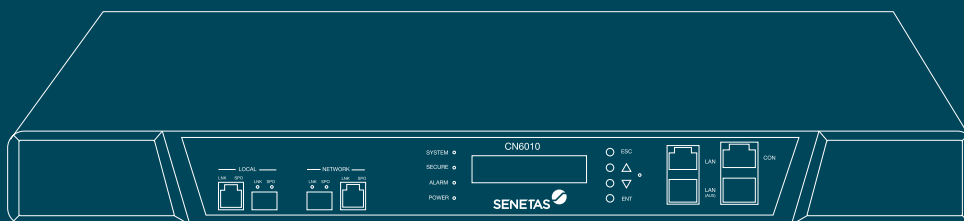# SENETAS CN6000 SERIES

## MULTI-CERTIFIED | HIGH-ASSURANCE | CRYPTO-AGILE



## Rack-Mounted, Carrier-Grade 1-10Gbps Encryption

| Model | CN6010 | CN6100 | CN6140 | |
|---|---|---|---|---|
| **Network Protocols Supported** | **ETHERNET** | **ETHERNET** | **ETHERNET** (SINGLE) | **ETHERNET** (MULTI) |
| **Protocols and Connectivity** | | | | |
| Network topologies | All | All | All | All |
| Maximum speed | 1Gbps | 10Gbps | 10Gbps | 4 x 10Gbps |
| Link/rate limiting | ✓ | ✓ | ✓ | ✓ |
| Support for jumbo frames | ✓ | ✓ | ✓ | ✓ |
| Protocol and application transparent | ✓ | ✓ | ✓ | ✓ |
| Encrypts Unicast. Multicast and Broadcast traffic | ✓ | ✓ | ✓ | ✓ |
| Automatic network discovery and connection establishment | ✓ | ✓ | ✓ | ✓ |
| Network interfaces | RJ45, SFP | XFP | SFP, SFP+ | SFP, SFP+ |
| **Security** | | | | |
| Tamper resistant and evident enclosure | ✓ | ✓ | ✓ | ✓ |
| Anti-probing barriers | ✓ | ✓ | ✓ | ✓ |
| Flexible encryption policy engine | ✓ | ✓ | ✓ | ✓ |
| Robust AES encryption algorithm | ✓ | ✓ | ✓ | ✓ |
| Per packet confidentiality and integrity with AES,GCM encryption | ✓ | ✓ | ✓ | @1Gbps only |
| Automatic, zero-touch key management | ✓ | ✓ | ✓ | ✓ |
| Traffic flow security (TRANSEC) | ✓ | ✓ | ✓ | ✓ |
| **Encryption and Policy** | | | | |
| AES 128 or 256bit keys | 128/256 | 128/256 | 128/256 | 128/256 |
| Policy based on MAC address or VLAN ID | ✓ | ✓ | ✓ | ✓ |
| Encryption modes | GCM, CFB, CTR | GCM, CFB, CTR | GCM, CFB, CTR | GCM, CFB, CTR |
| Self healing key management | ✓ | ✓ | ✓ | ✓ |

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|---|---|---|---|---|
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| **Certifications** | | | | |
| Common Criteria EAL2+ EAL4+ | ✓ | ✓ | ✓ | ✓ |
| FIPS 140-2 Level 3 | ✓ | ✓ | ✓ | ✓ |
| NATO | ✓ | ✓ | ✓ | ✓ |
| **Performance** | | | | |
| Low overhead full duplex line-rate encryption | ✓ | ✓ | ✓ | ✓ |
| FPGA based cut-through architecture | ✓ | ✓ | ✓ | ✓ |
| Ultra low latency for high performance | ✓ | ✓ | ✓ | ✓ |
| Latency (µs per encryptor) | < 10 @ 1Gbps | < 5 @ 10Gbps | < 5 @ 10Gbps | < 5 @ 10Gbps |
| **Management** | | | | |
| Config & management via CM7 and SNMPv3 | ✓ | ✓ | ✓ | ✓ |
| SNMPv1/2 monitoring (read-only) | ✓ | ✓ | ✓ | ✓ |
| Certificate signing | RSA, EC | RSA, EC | RSA, EC | RSA, EC |
| Support for external (X.509v3) CAs | ✓ | ✓ | ✓ | ✓ |
| Remote management using SNMPv3 (in-band and out-of-band) | ✓ | ✓ | ✓ | ✓ |
| NTP (time server) support | ✓ | ✓ | ✓ | ✓ |
| CRL and OCSP (certificate) server support | ✓ | ✓ | ✓ | ✓ |
| **Maintainability/Interoperability** | | | | |
| In-field firmware upgrades | ✓ | ✓ | ✓ | ✓ |
| Dual swappable AC and/or DC power supply | ✓ | ✓ | ✓ | ✓ |
| Fan cooled | ✓ | ✓ | ✓ | ✓ |
| User replaceable fans and batteries | ✓ | ✓ | ✓ | ✓ |
| Fully interoperable with all CN models | ✓ | ✓ | ✓ | ✓ |
| **Physical and Installation** | | | | |
| Form factor | 1U rack mount | 1U rack mount | 1U rack mount | 1U rack mount |
| Physical dimensions (mm) W / D / H | 435/329/43 | 435/329/43 | 435/329/43 | 435/329/43 |
| Weight | 8.5kg | 8.5kg | 8.5kg | 8.5kg |
| Power source | Mains | Mains | Mains | Mains |
| Power input rating | 100-240 VAC, 50/60 Hz, 0.6 A or 40.5-60 VDC, 1.0 A | 100-240V AC, 50/60 Hz, 1.5A or 40.5-60V DC, 2A | 100-240 VAC, 50/60 Hz, 1.5 A or 40.5-60 VDC, 2.0 A | 100-240 VAC, 50/60 Hz, 1.5 A or 40.5-60 VDC, 2.0 A |
| Power consumption at highest data rate | 18W | 50W | 22W | 49W |
| **Environment, Regulatory and Safety** | | | | |
| RoHS compliant | ✓ | ✓ | ✓ | ✓ |
| Maximum operating temperature | 0-80% RH at 50°C | 0-80% RH at 50°C | 0-80% RH at 40°C | 0-80% RH at 40°C |
| Safety standards | EN 60950-1 (CE) UL / IEC 60950-1 AS/NZS 60950.1 | EN 60950-1 (CE) UL / IEC 60950-1 AS/NZS 60950.1 | N 60950-1 (CE) IEC 60950-1 AS/ NZS 60950.1 | N 60950-1 (CE) IEC 60950-1 AS/ NZS 60950.1 |
| UL listed | ✓ | ✓ | ✓ | ✓ |

SENETAS

Security without compromise