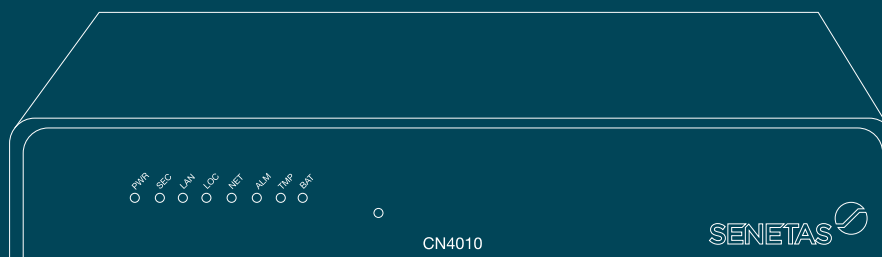# SENETAS CN4000 SERIES

MULTI-CERTIFIED | HIGH-ASSURANCE | CRYPTO-AGILE

Compact, Cost-Effective 10Mbps-1Gbps Encryption

Model	CN4010	CN4020
Network Protocols Supported	**ETHERNET**	**ETHERNET**
Protocols and Connectivity		
Ethernet all topologies	✓	✓
Physical encryption channels	1	1
Maximum speed	1Gbps	1Gbps
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 (optional SFP to RJ45 adapter available)	RJ45	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	✓	✓
Automatic, zero-touch key management	✓	✓
Traffic flow analysis protection (TRANSEC)	✓	✓
Encryption and Policy		
AES 128 or 256bit keys	128/256	128/256
Policy based on MAC address or VLAN ID	✓	✓
Encryption modes	CFB, CTR, GCM	CFB, CTR, GCM
Self-healing key management	✓	✓

Model	CN4010	CN4020
Network Protocols Supported	**ETHERNET**	**ETHERNET**
Certifications		
Common Criteria	✓	✓
FIPS	✓	✓
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 <50 @ 100Mbps <650 @ 10Mbps	<10 @ 1Gbps <50 @ 100Mbps <650 @ 10Mbps
Management		
Central config. and management using CM7 and SNMPv3	✓	✓
SNMPv1/2 monitoring (read-only)	✓	✓
Certificate signing	RSA, EC	RSA, EC
Support for external (X.509v3) CAs	✓	✓
Remote management using SNMPv3 (inband and out-of-band)	✓	✓
NTP (time server) support	✓	✓
CRL and OCSP(certificate) server support	✓	✓
Maintainability/ Interoperability		
In-field firmware upgrades	✓	✓
Fan cooled	-	✓
Fully interoperable with all CN models	✓	✓
Physical and Installation		
Form factor (optional rack-mount kit available)	Desktop	Desktop
Physical dimensions (mm) W / D / H	180 / 126 / 32	180 / 126 / 32
Weight	500g	500g
Power source	AC plug pack	AC plug pack
Power input rating	9-15 VDC, 1.0 A at DC input 100-240 VAC, 0.7 at AC input	12 VDC, 1.0 A at DC input 100-240 VAC, 0.7 at AC input
Power consumption at highest data rate	6W at DC input 10W at AC input	7W at DC input 11W at AC input
Environment, Regulatory and Safety		
RoHS compliant	✓	✓
Maximum operating temperature	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
UL listed	✓	✓
FCC Part 15 / CISPR 32 / EN 55032 Emissions	Class B	Class B

SENETAS

Security without compromise