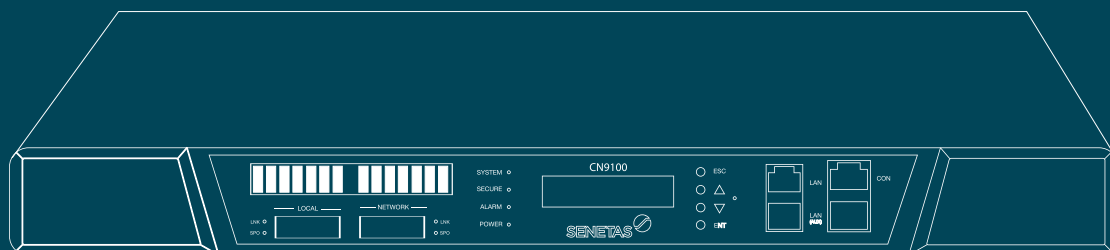


# SENETAS CN9000 SERIES

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



## Ultra-Fast, 100Gbps Ethernet Encryption

Model	CN9100	CN9120
<b>Network Protocols Supported</b>	<b>ETHERNET</b>	<b>ETHERNET</b>
<b>Protocols and Connectivity</b>		
Support for all Ethernet network topologies	✓	✓
Maximum speed	100Gbps	100Gbps
Support for jumbo frames	✓	✓
Protocol and application transparent	✓	✓
Encrypts Unicast, Multicast and Broadcast traffic	✓	✓
Automatic network discovery and connection establishment	✓	✓
Network and Local Interface – SR4, LR4, ER4(lite) links (up to 40km)	CFP4	QSFP28
Network Interface MAN – Inphi ColorZ - links (up to 80km)^	-	QSFP28
<b>Security</b>		
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	✓	✓
<b>Encryption and Policy</b>		
AES 128 or 256 bit keys	128/256	128/256
Policy based on VLAN ID	✓	✓
Encryption modes	GCM*, CTR	GCM*, CTR
Self healing key management	✓	✓

\*Firmware upgrade pending

Model	CN9100	CN9120
<b>Network Protocols Supported</b>	<b>ETHERNET</b>	<b>ETHERNET</b>
<b>Certifications</b>		
Common Criteria EAL 2+	✓	✓
FIPS 140-2 Level 3	✓	✓
<b>Performance</b>		
Low overhead full duplex line-rate encryption	✓	✓
FPGA based cut-through architecture	✓	✓
'Store and forward' data transmission mode support	-	-
Ultra low latency for high performance	✓	✓
Latency (µs per encryptor)	< 2	< 2
<b>Management</b>		
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 (in-band and out-of-band)	✓	✓
NTP (time server) support	✓	✓
CRL and OCSP (certificate) server support	✓	✓
<b>Maintainability/ Interoperability</b>		
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	✓	✓
<b>Physical and Installation</b>		
Form factor	1U rack mount	1U rack mount
Physical dimensions (mm) W / D / H	435 / 480 / 43	435 / 480 / 43
Weight	8kg	8kg
Power source	AC/DC	AC/DC
Power input rating	100-240V AC, 50/60Hz, 2A or 40.5-60V DC 4A	100-240V AC, 50/60Hz, 2A or 40.5-60V DC 4A
Power consumption at highest data rate	80W	80W
<b>Environment, Regulatory and Safety</b>		
RoHS compliant	✓	✓
Maximum operating temperature	0-80% RH at 40°C	0-80% RH at 40°C
Safety standards	EN 60950-1 (CE) IEC 60950-1 AS/NZS 60950.1	EN 60950-1 (CE) IEC 60950-1 AS/NZS 60950.1
UL listed	✓	✓
FCC Part 15 / CISPR 32 / EN 55032 Emissions	Class B	Class B

^ Longer distance use of the Inphi ColorZ QSFP28 interface may require other network devices. Requirements should be discussed with Senetas or a qualified service provider.

