

**Senetas** encryptors can be categorized by performance and the protocols they support. The tables that follow summarize the capabilities of the CN and CS families. Refer to the individual data sheets for further details.

## Ethernet, IP and Fibre Channel

Platform	CN Series		CS Series	
Protocol	Ethernet	Fibre Channel	Ethernet	IPSec
Speed	CN1000 100Mbps-1Gbps CN3000 10Gbps	CN1000 1-4 Gbps	CS10 up to 10 Mbps CS100 up to 100 Mbps	
Architecture	Cut-through	Cut-through	Store and Forward	Store and Forward
Encryption Key	AES-256	AES-256	AES-256	AES-256
Key update period	1-60 mins	1-60 mins	1-60 mins	1-60 mins
Encryption Mode	CFB or Counter - layer 2	CFB or Counter - layer 2	CFB - layer 2	IPSec - layer 3
Certificate	X.509	X.509	X.509	X.509
Latency (end to end)	< 15 micro Sec at 10Gbps	< 3 micro Sec at 4Gbps	5-100 ms	5-100 ms
Frame size	64-10,000 bytes		1536 bytes	< 1500 bytes
Multipoint connections	509 31 for 10GbE	N.A.	509	< 60
MAC addresses	10,000 63 for 10GbE	N.A.	10,000	N.A.
Media	10Base-T 100Base-T 1000Base-T 10GBase-xx 1000Base-xx	SFP	10Base-T 100Base-T 1000Base-SX	10Base-T 100Base-T 1000base-SX
Interfaces	RJ45 SFP to 1Gbps XFP at 10Gbps	SFP	RJ45	RJ45
Accreditation				
Common Criteria	EAL4+	EAL4+	EAL4+	N.A.
FIPS	FIPS 140-2 L3	FIPS 140-2 L3	N.A.	N.A.
Physical				
Height	1U, 44 mm 3U, 142 mm	1U, 44 mm	CS10 40 mm CS100 1U, 44 mm	
Width	19 inch rack (482 mm)	19 inch rack (482 mm)	CS10 185 mm CS100 19 inch rack	
Depth	CN1000 320 mm CN3000 370 mm	380 mm	CS10 160 mm CS100 480 mm	
Power requirements				
Voltage	90-240 VAC		90-240 VAC (CS10 via Plug pack)	
Frequency	47-63 Hz		47-63 Hz	
Watts	40-200 watts	80 watts	CS10 6-20 watts CS100 70 watts	
Dissipation	140-680 BthU	275 BthU	65 BthU max	

## Other Protocols

Platform		CN Series		
Protocol		SONET/SDH	ATM	LINK
Speed		CN1000 155-2488.32 Mbs CN3000 9.9522 Mbs	CN1000 1.5 - 622 Mbs	CN1000 up to 2.048 Mbs
Architecture		Cut-through	Cut-through	Cut-through
Encryption Key		AES-256	AES-256 or DES/3DES	AES-256
Key update period		60 mins	1-60 mins	1-60 mins
Encryption Mode		Counter	CFB or Counter	CFB
Certificate		X.509	X.509	X.509
Latency (end to end)		10 microsec/unit (OC-48)	20 microseconds max	20 microseconds max
Frame size		depends on rate	53 byte cell	32 channels
Connections		Line and Path	Permanent virtual paths (PVP) Permanent virtual circuits (PVC)	point to point
Media		Optical	Optical, refer to data sheet	V.11 / X.21
Interfaces		CN1000 SFP to 622Mbps CN3000 XFP at 10Gbps	E1, T1, BNC or RJ45 Optical, refer to data sheet	E1 RJ45 and BNC
Accreditation				
	Common Criteria	EAL4+	EAL4+	EAL4+
	FIPS	FIPS 140-2 L3	FIPS 140-2 L3	FIPS 140-2 L3
Physical	Height	CN1000 1U, 44 mm CN3000 3U, 142 mm	1U, 44 mm	1U, 44 mm
	Width	19 inch rack (482 mm)	19 inch rack (482 mm)	19 inch rack (482 mm)
	Depth	CN1000 320 mm CN3000 370 mm	380 mm	380 mm
Power requirements	Voltage	90-240 VAC		
	Frequency	47-63 Hz		
	Power	40-200 watts	60 watts	25 watts
	Dissipation	140-680 BthU	210 BthU	90 BthU