















### 3.3 Gateways





#### 3.3.1 Analog Gateways

Analog Gateways										
	M-ATA	SN100	SN200	SN4110	SN4140	SN4520	SN4830	SN4300	SN4400	SN4900*
										
<b>Software</b>	SmartLink	SmartLink	Trinity	SmartWare	Trinity	SmartWare	SmartWare	SmartWare	SmartWare	SmartWare
<b>Patton Cloud Connect</b>	No	No	Yes	Redirect Only	Yes	Redirect Only	Redirect Only	Redirect Only	Redirect Only	Redirect Only
<b>Telephony Interfaces</b>	FXS	FXS & FXO	FXS & FXO	FXS & FXO	FXS	FXS & FXO	FXS & FXO	FXS or FXO	FXS or FXO	FXS or FXO
<b>Telephony Ports</b>	1	1, 2 or 4	1, 2 and 4	2, 4, 6 or 8	2, 4 or 8	2, 4, 6 or 8	2, 4, 6 or 8	12, 16, 24 or 32	12, 16, 24 or 32	12, 16, 24 or 32
<b>IP Router: IP Routing, QoS, VPN, etc.</b>	No	No	No	No	No	Yes	Yes	No	Yes	Yes
<b>Ethernet Ports</b>	1	2	1	1	1 or 2	2	2	1	2	2
<b>WAN Access</b>	No	No	No	No	No	No	G.SHDSL Serial X.21 Serial V.35 ADSL	No	No	(Optional) Serial X.21 Serial V.35











#### 3.3.2 ISDN BRI (S0) Gateways

ISDN BRI Gateways				
	SN-DTA	SN4120	SN4130	SN4150
				
<b>Software</b>	SmartWare	SmartWare	SmartWare	SmartWare
<b>Patton Cloud Connect</b>	Redirect Only	Redirect Only	Yes	Yes
<b>Telephony Interfaces</b>	BRI (NT or NT+TE)	BRI (TE)	BRI	BRI, FXS, FXO
<b>Telephony Ports</b>	1 or 2	1 or 2	2, 4 or 8	2, 4 or 8
<b>VoIP Channels</b>	2 or 4	2 or 4	4, 8, 16...	4, 8 or 16
<b>IP Router: IP Routing, QoS, VPN, etc.</b>	No	No	No	No
<b>Ethernet Ports</b>	1	1	1 or 2	1 or 2
<b>WAN Access</b>	No	No	No	No





#### 3.3.3 ISDN E1 (S2M) Gateways

T1/E1/PRI Gateways				
	SN4170	SN4970	SN4980	SN4990
				
<b>Software</b>	Trinity	Trinity	Trinity	Trinity
<b>Patton Cloud Connect</b>	Yes	Yes	Yes	Yes
<b>Telephony Interfaces</b>	PRI	T1/E1/PRI	T1/E1/PRI	T1/E1/PRI
<b>Telephony Ports</b>	1 or 2	1 or 4	1 or 4	1 or 4
<b>VoIP Channels</b>	15 to 30	15, 24, 30, 48, 60, 96 or 120	15, 24, 30, 48, 60, 96 or 120	15, 24, 30, 48, 60, 96 or 120
<b>VoIP Gateway: Converts TDM to IP</b>	Yes	Yes	Yes	Yes
<b>IP Router: IP Routing, QoS, VPN, etc.</b>	No	No	Yes	Yes
<b>Ethernet Ports</b>	1 or 2	1	2	2
<b>WAN Access</b>	No	No	No	Fiber, ADSL, G.SHDSL, VDSL
<b>Transcoding: Interconnect multiple VoIP networks</b>	No	No	Optional	Optional





### 3.3.4 Enterprise Session Border Controller (eSBC)

Enterprise Session Border Controllers (eSBC)										
	SN5200	SN5300	SN5480	SN5490	SN5500	SN5530	SN5540	SN5550	SN5600	SN5570
										
<b>Software</b>	SmartWare	Trinity	Trinity	Trinity	Trinity	Trinity	Trinity	Trinity	Trinity	Trinity
<b>Patton Cloud Connect</b>	Redirect Only	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Telephony Interfaces</b>	None	None	None	None	None	2, 4 or 8 BRI	2, 4 or 8 FXS	2 or 4 BRI, FXS, FXO	None	1 or 2 PRI
<b>SIP Sessions</b>	Up to 32	Up to 60	Up to 80	Up to 80	Up to 200	Up to 200	Up to 200	Up to 200	Up to 1000+	Up to 200
<b>Transcoded Calls</b>	N/A	N/A	Up to 64	Up to 64	Up to 16	2 or 4	1, 2 or 4	2 or 4	N/A	16
<b>Transcoding: Interconnect multiple VoIP networks</b>	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
<b>VoIP Gateway: Converts TDM to IP</b>	No	No	No	No	No	Yes	Yes	Yes	No	Yes
<b>IP Router: IP Routing, QoS, VPN, etc.</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Ethernet Ports</b>	5	4	2	2	2	2	2	2	2	2
<b>WAN Access</b>	Optional X.21	G.SHDSL.bis (ATM or EFM)	No	Fiber, G.SHDSL, VDSL/ADSL	Fiber, G.SHDSL, VDSL/ADSL	Fiber, G.SHDSL, VDSL/ADSL	Fiber, G.SHDSL, VDSL/ADSL	Fiber, G.SHDSL, VDSL/ADSL	Ethernet	Fiber, G.SHDSL, VDSL/ADSL
<b>SIP &amp; RTP Security</b>	No	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes

### 3.3.5 Carrier Media Gateways

T1/E1/PRI Gateways for Carriers										
	SN10100			SN10200			SN10300			SN10500
										
<b>Software</b>	SmartMedia			SmartMedia			SmartMedia			SmartMedia
<b>Telephony Interfaces</b>	T1/E1/PRI			T1/E1/PRI	DS3	STM-1	T1/E1/PRI	DS3	STM-1	None
<b>Telephony Ports</b>	4 to 8			16 to 64	1, 2, or 3	1	16 to 1024	1, 2, or 3	1 to 15 +1	None
<b>VoIP Channels</b>	up to 256			up to 2,048			up to 32,768			25 to 5000 (SIP to SIP)
<b>VoIP Gateway: Converts TDM to IP</b>	Yes			Yes			Yes			No
<b>IP Router: IP Routing, QoS, VPN, etc.</b>	No			No			No			No
<b>Ethernet Ports</b>	2			2			up to 48			4 to 6
<b>WAN Access</b>	No			No			No			No
<b>Transcoding: Interconnect multiple VoIP networks</b>	No			No			No			up to 2,744

### 3.3.6 Special Gateways

	Voice Connect IP	MP/OP 34xx	iAGS-1	iAGS-4
				
<b>Software</b>	CNOS	CNOS	CNOS	CNOS
<b>ISDN Interfaces</b>	4-8 BRI / 1 E1	4-8 BRI / 1 E1	4 E1	8 E1
<b>Voice Channels</b>	16	16	60	240
<b>Ethernet Ports</b>	1	1	2	4
<b>Gigabit Ethernet</b>	-	-	-	2
<b>IP Router</b>	Yes	Yes	Yes	Yes
<b>SIP / H.323</b>	Yes	Yes	Yes	No
<b>DSS-1 / Q.SIG</b>	Yes	Yes	Yes	Yes
<b>ABC-F / TNet / CorNet</b>	Yes	Yes	Yes	No
<b>ATM</b>	Yes	Yes	Yes	Yes