

Device Compatibility

Along with the full range of VoiceDirector devices we offer, a number of other SIP telephony products are compatible with the VoiceDirector corporate calling solution

In addition to our VoiceDirector hardware products, the following SIP broadband devices are also compatible with VoiceDirector:

- AudioCodes MP-102, MP-104, MP-108
- BCM WLAN 660
- Cisco ATA 186
- Quintum Tenor AX (MultiPath AXM Series), BX408, DX
- Sipura SPA-2000
- Sipura SPA-2100 (includes built-in router)

VoiceDirector Hardware

In addition to the full line of multi-port gateways, VoIP phones and Wi-Fi handsets we provide, a number of other broadband telephony devices are also compatible with VoiceDirector:

Manufacturer	Model	Number of Ports	Configuration	Supported Firmware
AudioCodes	MP-102/4/8	2/4/8	FXS	4.40.193.350
BCM	WLAN 660	1	Wi-Fi handset	WN0005
Cisco	ATA 186	2	FXS	3.10, 2.16, 2.15
Quintum	Tenor AX (MultiPath AXM Series)	8/16/24	FXS or FXO	P103 08 00
Quintum	Tenor BX408	4 (8 VoIP channels)	BRI	P103 08 00
Quintum	Tenor DX	2/4/6/8	T1/E1/PRI Spans	P103 08 00
Sipura	SPA-2000	2	FXS	2.0.13(g)
Sipura	SPA-2100	2	FXS	2.0.1(a)



AudioCodes MP-104



BCM WLAN 660



Cisco ATA 186



Sipura SPA-2000



Quintum Tenor BX408



Sipura SPA-2100

For the latest list of devices compatible with VoiceDirector, please visit www.voicedirector.net

AudioCodes MP-102/4/8 Specifications

Interfaces

Telephone Interfaces	FXS or FXO
Network Interface	10/100 Base-T, RJ45
Indicators	Channel status and activity LEDs

Voice and Modem

Voice over Packet Capabilities	G.168-2000 compliant echo cancellation, VAD, CNG, dynamic programmable jitter buffer, modem detection and auto switch to PCM
Voice Compression	Includes G.711 and G.729a

Signaling

Signaling	FXS, FXO loop-start
In-band Signaling	<ul style="list-style-type: none">DTMF (TIA 464B)User defined and call progress tones
Provisioning	<ul style="list-style-type: none">BootP, DHCP and TFTPFeature management using Web interface

Physical

Power	90-260 VAC/47-63 Hz
Environmental	<ul style="list-style-type: none">Operational: -5° to 55° C (23° to 131° F)Storage: -40° to 70° C (-40° to 158° F)Humidity: 10% to 90% (non-condensing)
Dimensions (H x W x D)	44 x 220.3 x 240 mm
Mounting	Wall mount, rack mount, table top

Additional Features

Short and Long Haul	Up to 7000 meters at 24 AWG
Caller ID	Bellcore Type 1 & 2, ETSI NTT and DTMF based CID (India, Sweden, Denmark)
Polarity Reversal	Immediate or smooth to prevent erroneous ringing
Metering Tones	12/16 KHX sinusoidal bursts
Distinctive Ringing	By frequency (15-100 Hz) and cadence patterns
Message Waiting Indication	DC voltage generation (TIA/EIA-464-B), V23 FSK data, stutter dial tone
Support	Syslog support (available in Web interface)

BCM WLAN 660 Specifications

Hardware Specifications

Telephone Interface	2.5mm Earphone jack
Network Interface	Wireless IEEE 802.11b Intersil Prism 3.0 CF module
Power Adapter	110-240v
Display	LCD 112 x 64 graphic mode with backlight

Software Specifications

Features	<ul style="list-style-type: none">• Ringer and/or vibrator• SIP (RFC 2543, 3261)• Up to 14 channels• 802.11 direct sequence rate scaling at 1, 2, 5.5 and 11 Mbps• RF output 30mW peak• 2.4-2.497 GHz frequency range• Range of 1000+ ft/30+m outdoors and up to 292 ft/75.5m indoors
Telephony Features	<ul style="list-style-type: none">• Speed dialing• RF and battery level indicators• Phone book• Selectable predefined ring melodies/tones• Call hold• Redial• Keypad lock• Icon notification for voicemail
Network Protocol	TCP/IP, DHCP, IEEE 802.11b (802.11g compatible)
Network Security	Wired Equivalent Privacy (WEP) 64 and 128 bit
Speech Codec Capabilities	G.711, G.729a
EMI/RFI Regulatory Approval	FCC Part 15 Class B
Provisioning	HTTP with MD5 authentication for automatic provisioning and firmware downloads with enhanced redundancy mechanism

Physical Specifications

Dimensions	5.0" (h) x 1.8" (w) x 0.8" (d)
Weight	Around 110g
Battery	3.7v, 1350mAh lithium
Battery Life	3.2 hours talk time, 21-23 hours standby
Operating Temperature	0° C to 40° C
Storage Temperature	-20° C to 55° C
Operating Humidity	20-85% RH
Storage Humidity	0-90% RH

Cisco ATA 186 Specifications

Physical Interfaces

Ethernet	Two RJ-45, IEEE 802.3 10BASE-T standard
Analog Telephone	Two RJ-11 FXS voice ports
Power	5 VDC power connector
Indicators	Function button with integrated status indicator Link and activity LED indicating network activity

Software Specifications

Call progress tone	Configurable for two sets of frequencies and single set of on/off cadence
DTMF	DTMF tone detection and generation
Line-echo cancellation	<ul style="list-style-type: none">• Echo canceller for each port• 8 ms echo length• Nonlinear echo suppression (ERL > 28 dB for frequency=300 to 2400 Hz)• Convergence time=250 ms• ERLE=10 to 20 db• Double-talk detection
Configuration	<ul style="list-style-type: none">• DHCP (RFC 2131)• Web configuration via built-in Web server• Touch-tone telephone keypad configuration with voice prompt• Basic boot configuration (RFC 1350 TFTP profiling)• Dial plan configuration• Cisco Discovery Protocol for SCCP
Quality of Service	<ul style="list-style-type: none">• Class-of-service (CoS) bit-tagging (802.1P)• Type-of-service (ToS) bit-tagging
Voice codecs	Include G.711 and G.729a
Voice features	<ul style="list-style-type: none">• Voice activity detection (VAD)• Comfort noise generation (CNG)• Dynamic jitter buffer (adaptive)

Physical Specifications

Dimensions	1.5 x 6.5 x 5.75 in. (3.8 x 16.5 x 14.6 cm) (H x W x D)
Weight	15 oz (425 g)

Environmental Specifications

Operating temperature	41° to 104° F (5° to 40° C)
Storage temperature	-4° to 140° F (-20° to 65° C)
Relative humidity	10% to 90% noncondensing, operating and nonoperating/storage

Quintum Tenor AX (MultiPath AXM) Specifications

Physical Interfaces

Telephone	FXS or FXO (8/16/24)
Ethernet	1 Fast Ethernet (10/100 Base-T) Standard RJ-45 (IEEE 802.3) for 10 Base-T or 100 Base-T connections
Power	100-240V AC, 50/60 Hz, 60 watts

Software Specifications

Echo cancellation	ITU Rec. G.168, up to 128 mSecs tail size
Configuration	<ul style="list-style-type: none">• Quintum Tenor Configuration Manager (GUI) for configuration of remote individual Tenors• Quintum Tenor Monitor (GUI) for alarm monitoring, call monitoring and CDR monitoring• SNMPv2 Agent• Command Line Interface (CLI)
QoS Support	<ul style="list-style-type: none">• IP TOS• DiffServ
Voice algorithms	Include G.711 and G.729a
Voice features	<ul style="list-style-type: none">• Voice activity detection (VAD)• Comfort noise generation (CNG)• Jitter buffer (adaptive)

Physical Specifications

Dimensions	1.75 x 17.375 x 10.75 in. (4.5 x 44.5 x 27.6 cm) (H x W x D)
Weight	10 lbs. (4.55 kg) maximum

Environmental Specifications

Operating temperature	40° to 104° F (5° to 40° C)
Operating humidity	20% to 80% noncondensing

Quintum Tenor BX408 Specifications

Physical Interfaces

BRI	4 S/T ports (8 VoIP channels)
Ethernet	1 Fast Ethernet (10/100 Base-T) Standard RJ-45 (IEEE 802.3) for 10 Base-T or 100 Base-T connections
Power	100-240V AC, 50/60 Hz, 35 watts

Software Specifications

Echo cancellation	ITU Rec. G.168, up to 128 mSecs tail size
Configuration	<ul style="list-style-type: none">• Quintum Tenor Configuration Manager (GUI) for configuration of remote individual Tenors• Quintum Tenor Monitor (GUI) for alarm monitoring, call monitoring and CDR monitoring• SNMPv2 Agent• Command Line Interface (CLI)
QoS Support	<ul style="list-style-type: none">• IP TOS• DiffServ Code Point
Voice algorithms	Include G.711 and G.729a
Voice features	<ul style="list-style-type: none">• Voice activity detection (VAD)• Comfort noise generation (CNG)• Jitter buffer (adaptive)

Physical Specifications

Dimensions	1.75 x 17.375 x 10.75 in. (4.5 x 44.5 x 27.6 cm) (H x W x D)
Weight	8.25 lbs. (3.75 kg) maximum

Environmental Specifications

Operating temperature	40° to 104° F (5° to 40° C)
Operating humidity	20% to 80% noncondensing

Quintum Tenor DX Specifications

Physical Interfaces

T1/E1/PRI Spans	2/4/6/8
Ethernet	1 Fast Ethernet (10/100 Base-T) Standard RJ-45 (IEEE 802.3) for 10 Base-T or 100 Base-T connections
Power	100-240V AC, 50/60 Hz, 50 watts

Software Specifications

Echo cancellation	ITU Rec. G.168, up to 128 mSecs tail size
Configuration	<ul style="list-style-type: none">• Quintum Tenor Configuration Manager (GUI) for configuration of remote individual Tenors• Quintum Tenor Monitor (GUI) for alarm monitoring, call monitoring and CDR monitoring• SNMPv2 Agent• Command Line Interface (CLI)
QoS Support	<ul style="list-style-type: none">• IP TOS• DiffServ
Voice algorithms	Include G.711 and G.729a
Voice features	<ul style="list-style-type: none">• Voice activity detection (VAD)• Comfort noise generation (CNG)• Jitter buffer (adaptive)

Physical Specifications

Dimensions	1.75 x 17.375 x 10.75 in. (4.5 x 44.5 x 27.6 cm) (H x W x D)
Weight	8.25 lbs. (3.75 kg) maximum

Environmental Specifications

Operating temperature	40° to 104° F (5° to 40° C)
Operating humidity	20% to 80% noncondensing

Sipura SPA-2000 Specifications

Physical Interfaces

Ethernet	One RJ-45 port, 10baseT interface (IEEE 802.3)
Analog Telephone	Two RJ-11 FXS ports, for analog circuit telephone device (tip/ring)
Indicators	LAN activity/Link LED Status LED (in-use, provisioning, idle, alert)

Physical Specifications

Environmental	<ul style="list-style-type: none">Operational: 41° to 113° F (5° to 45° C)Storage: -13° to 185° F (-25° to 85° C)Humidity: 10% to 90% non-condensing, operating and non-operating
Dimensions	110mm x 93mm x 35mm (4.33in. x 3.66in. x 1.38in.)
Mounting	Desktop or wall mountable

Voice Gateway Specifications

Voice algorithms	Include G.711 and G.729a
Configuration	<ul style="list-style-type: none">Web browser administration and configuration via integral Web serverTelephone key pad configuration with interactive voice promptsAutomated provisioning and upgrade via HTTPS, HTTP, TFTPAsynchronous notification of upgrade availability via NOTIFYNon-intrusive, in-service upgradesReport generation and event loggingPer line and purpose configurable syslog and debug options
Quality of Service	<ul style="list-style-type: none">Adjustable audio frames per packetFrame loss concealmentEcho cancellation (G.165/G.168)
Voice features	<ul style="list-style-type: none">Voice activity detection (VAD) with silence suppressionJitter buffer (adaptive)

Electrical Specifications

Power consumption	5W
DC input voltage	+5 VDC at 2.0 A max.
Power adaptor	Switching type with modular wall plug clip 100-240v, 50-60Hz (26-34VA) AC input, 1.8m cord

Sipura SPA-2100 Specifications

Physical Interfaces

Ethernet	One RJ-45 port, WAN Ethernet 10baseT interface (IEEE 802.3) One RJ-45 port, LAN Ethernet 10baseT interface (IEEE 802.3)
Analog Telephone	Two RJ-11 FXS ports, for analog circuit telephone device (tip/ring)
Indicators	LAN activity/Link LED on each Ethernet port Status LED (provisioning, alert, etc.) Phone 1, Phone 2 LED (in-use, registered, alert)

Physical Specifications

Environmental	<ul style="list-style-type: none">Operational: 41° to 113° F (5° to 45° C)Storage: -13° to 185° F (-25° to 85° C)Humidity: 10% to 90% non-condensing, operating and non-operating
Dimensions	102mm x 124mm x 28mm (4.02in. x 4.88in. x 1.10in.)

Voice Gateway Specifications

Voice algorithms	Include G.711 and G.729a
Configuration	<ul style="list-style-type: none">Web browser administration and configuration via integral Web serverTelephone key pad configuration with interactive voice promptsAutomated provisioning and upgrade via HTTPS, HTTP, TFTPAsynchronous notification of upgrade availability via NOTIFYNon-intrusive, in-service upgradesReport generation and event loggingPer line and purpose configurable syslog and debug options
Quality of Service	<ul style="list-style-type: none">Adjustable audio frames per packetFrame loss concealmentEcho cancellation (G.165/G.168)
Voice features	<ul style="list-style-type: none">Voice activity detection (VAD) with silence suppressionJitter buffer (adaptive)

Electrical Specifications

Power consumption	5W
DC input voltage	+5 VDC at 2.0 A max.
Power adaptor	Switching type with modular wall plug clip 100-240v, 50-60Hz (26-34VA) AC input, 1.8m cord