

Audiolog Turnkey Servers

Technical Specifications For “3000-Series” Turnkey Servers

Specifications
Rev. U, October 25 2010

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Version

Document version U: 25 October 2010

- Part Number updates to reflect pricing changes
- Motherboard updated to PDSMAE+
- Sound device updated

Document version T: 1 August 2010

- Added Redundant PRO server
- Updated hard drive information
- Updated memory information

Document version S: 16 December 2008

- Added use of Adaptec ASR-3405 RAID Controller (without battery) on PRO servers that are ordered with optional mirrored HDD's.
- Noted the inclusion of battery module on Adaptec RAID controllers used in the MAX-PRO/P4, MAX-PRO/QuadCore VoIP, and MAX-PRO/Quadcore Trunked Radio servers.

Preface

The purpose of this document is to detail the server specifications and some channel capacities of the various Audiolog systems. Verint shall continuously update this document as we update the Audiolog hardware configurations with new technology.

Server Selection

Audiolog Version 4 software is offered pre-installed on a variety of turn-key Intel based computer platforms. Server specifications and some channel capacities are provided in this document. The following turn-key server types are currently offered:

- [**Audiolog 3000-Series PRO Mid-Tower Server**](#)
- [**Audiolog 3000-Series PRO Rack-Mount Server**](#)
- [**Audiolog 3000-Series PRO Redundant Rack-Mount Server**](#)
- [**Audiolog 3000-Series MAX-PRO/P4 Server**](#)
- [**EXPANDED Audiolog 3000-Series MAX-PRO/P4 Server**](#)
- [**Audiolog 3000-Series MAX-PRO/Quad-Core VoIP Server**](#)
- [**Audiolog 3000-Series MAX-PRO/Quad-Core Trunked Radio Server**](#)

Technical Specifications: Audiolog 3000-Series PRO Mid-Tower Server



Motherboard, Chassis	SUPERMICRO Model PDSMAE+ Motherboard; SUPERMICRO Mid-Tower Chassis; Black	
Processor	Intel® CPU-651 (Intel® Pentium® 4 @ 3.40GHz)	
Memory	2GB	
RAID Controller	Not Available	
Hard Drive(s)	Standard: Single 500GB fixed-mount 7200 RPM ES.2 SATA.	
Online Recording Storage (for analog & digital recording)	500GB: 73,000 channel hours @13Kbps GSM (default) 120,000 channel hours @ 8Kbps G.729a 180,000 channel hours @ 5.3Kbps G723.1	
Optical Drive	DVD-ROM (removed if optional DVD-RAM is ordered)	
Archive Drive(s)	Optional: Single or Dual 9.4GB Panasonic DVD-RAM	
Audio, Video	SIIG Virtual 7.1-channel surround sound USB audio adapter; Integrated on-board XGI Z7 16MB video	
Network/LAN	Integrated on-board Dual Intel® PCI-e Gigabit LAN Optional: Intel® PRO/1000MT Single Port, PRO/1000MT Dual Port, or PRO/1000GT Quad Port NIC	
Other	No internal modem support (use external USB modem); Internal Floppy Drive	
Operating System, Database	Microsoft® Windows® XP Professional SP3, with SQL 2005 Express	
Dimensions (HxWxD), Weight	H 16.8" (427mm) x W 7" (178mm) x D 20.9" (531mm), Approx Weight 39 lbs (17.7kg)	
Power Supply, Electrical	Single 460W Power Supply; 100-240VAC (+/- 10%), 47-63 Hz.	
Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing Non-Operating Ranges: Temp -40 to +70°C (-40° to 158° F); Humidity 5 - 95%, non-condensing	
Peripherals Required	SVGA or better color display, keyboard, mouse, amplified external speakers	
RoHS Status	RoHS 6/6	
Verint Order Code	C89-170-3201: Audiolog 3000-Series PRO Mid-Tower Server	
Channel Capacities	2-Wire Analog: 48 Channels 2-Wire Digital: 48 Channels 4-Wire Digital: 24 Channels Mitel Digital (Series Tap): 24 Channels ISDN-BRI (INS64): 48 Channels (24 BRI circuits @ 2 B-Channels each) T1 Interception: 48 Channels T1 Terminating: 48 Channels	E1 Interception: 60 Channels E1 Terminating: 60 Channels PCM32 Terminating: 64 Channels VoIP Interception: Varies depending on RTP media compression and method of acquisition VoIP Delivery: Varies depending on RTP media compression and method of acquisition

Technical Specifications: Audiolog 3000-Series PRO Rack-Mount Server



Motherboard, Chassis	SUPERMICRO model PDSMAE+ Motherboard. SUPERMICRO 4U Rack-Mountable Chassis; Black	
Processor	Intel® CPU-651 (Intel® Pentium® 4 @ 3.40GHz)	
Memory	2GB	
RAID Controller	Not Available	
Hard Drive(s)	Standard: Single fixed-mount 500GB 7200 RPM ES.2 SATA.	
Online Recording Storage (for analog & digital recording)	500GB: 73,000 channel hours @ 13Kbps GSM (default) 120,000 channel hours @ 8Kbps G.729a 180,000 channel hours @ 5.3Kbps G723.1	
Optical Drive	DVD-ROM (removed if optional DVD-RAM is ordered)	
Archive Drive(s)	Optional: Single or Dual 9.4GB Panasonic DVD-RAM	
Audio, Video	SIIG Virtual 7.1-channel surround sound USB audio adapter; Integrated on-board XGI Z7 16MB video	
Network/LAN	Integrated on-board Dual Intel® PCI-e Gigabit LAN Optional: Intel® PRO/1000MT Single Port, PRO/1000MT Dual Port, or PRO/1000GT Quad Port NIC	
Other	Rack-mount ears included; Optional rail kit: C89-170-0421. Use external USB modem (by others).	
Operating System, Database	Microsoft® Windows® XP Professional SP3, with SQL 2005 Express.	
Dimensions (HxWxD), Weight	H 7.0" (178mm) x W 17.2" (437mm) x D 25.5" (648mm); Approx Weight 56 lbs (24.5kg)	
Power Supply, Electrical	Single 460W Power Supply; 100-240VAC (+/- 10%), 47-63 Hz.	
Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing Non-Operating Ranges: Temp -40 to +70°C (-40° to 158° F); Humidity 5 - 95%, non-condensing	
Peripherals Required	SVGA or better color display, keyboard, mouse, amplified external speakers	
RoHS Status	RoHS 6/6	
Verint Order Code	Soon to be deprecated C89-170-3002: Audiolog 3000-Series PRO Rack-Mount Server (without channels or options)	
Channel Capacities	2-Wire Analog: 48 Channels 2-Wire Digital: 48 Channels 4-Wire Digital: 24 Channels Mitel Digital (Series tap): 24 Channels ISDN-BRI (INS64): 48 Channels (24 BRI circuits @ 2 B-Channels each) T1 Interception: 48 Channels T1 Terminating: 48 Channels	E1 Interception: 60 Channels E1 Terminating: 60 Channels PCM32 Terminating: 64 Channels VoIP Interception: Varies depending on RTP media compression and method of acquisition VoIP Delivery: Varies depending on RTP media compression and method of acquisition

Technical Specifications: Audiolog 3000-Series Redundant Rack-Mount PRO Server





Motherboard, Chassis	SUPERMICRO model PDSMAE+ Motherboard. SUPERMICRO 4U Rack-Mountable Chassis; Black	
Processor	Intel® CPU-651 (Intel® Pentium® 4 @ 3.40GHz)	
Memory	2GB	
RAID controller	Adaptec ASR-2405 PCI Express (PCI-e) RAID controller without battery (uses the PCIe slot on PDSMAE+)	
Hard Drive(s)	2 x Hot-Swap 500GB 7200 RPM ES.2 SATA (RAID 1, 500GB total storage).	
Online Recording Storage (for analog & digital recording)	500GB total storage: 73,000 channel hours @ 13Kbps GSM (default) 120,000 channel hours @ 8Kbps G.729a 180,000 channel hours @ 5.3Kbps G723.1	
Optical Drive	DVD-ROM (removed if optional DVD-RAM is ordered)	
Archive Drive(s)	Optional: Single or Dual 9.4GB Panasonic DVD-RAM	
Audio, Video	SIIG Virtual 7.1-channel surround sound USB audio adapter; Integrated on-board XGI Z7 16MB video	
Network/LAN	Integrated on-board Dual Intel® PCI-e Gigabit LAN Optional: Intel® PRO/1000MT Single Port, PRO/1000MT Dual Port, or PRO/1000GT Quad Port NIC	
Other	Rack-mount ears included; included rail kit: C89-170-0421. Use external USB modem (by others).	
Operating System, Database	Standard: Microsoft® Windows® XP Professional SP3, with SQL 2005 Express Database.	
Dimensions (HxWxD), Weight	H 7.0" (178mm) x W 17.2" (437mm) x D 25.5" (648mm) Approx Weight 58 lbs (26.3kg)	
Power Supply, Electrical	Redundant Hot-Swap 800W power supplies w/ PFC; 100 - 240VAC (+/- 10%), 47-63 Hz.	
Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing Non-Operating Ranges: Temp -40 to +70°C (-40° to 158° F); Humidity 5 - 95%, non-condensing	
Peripherals Required	SVGA or better color display, keyboard, mouse, amplified external speakers	
RoHS Status	RoHS 5/6 (Server Exemption)	
Verint Order Code	C89-170-3202: 3000-Series AL Redundant Pro,2x500GB RAID 1,WINXP,2PCI,STD-Licenses	
Channel Capacities	2-Wire Analog: 48 Channels 2-Wire Digital: 48 Channels 4-Wire Digital: 24 Channels Mitel Digital (Series tap): 24 Channels ISDN-BRI (INS64): 48 Channels (24 BRI circuits @ 2 B-Channels each) T1 Interception: 48 Channels T1 Terminating: 48 Channels	E1 Interception: 60 Channels E1 Terminating: 60 Channels PCM32 Terminating: 64 Channels VoIP Interception: Varies depending on RTP media compression and method of acquisition VoIP Delivery: Varies depending on RTP media compression and method of acquisition

Technical Specifications: Audiolog 3000-Series MAX-PRO/P4 Server



Motherboard, Chassis	SUPERMICRO model PDSMAE+ Motherboard. SUPERMICRO 4U Rack-Mountable Chassis; Black	
Processor	Intel® CPU-651 (Intel® Pentium® 4 @ 3.40GHz)	
Memory	4GB	
RAID controller	Adaptec ASR-3405 PCI Express (PCI-e) 4-Ch RAID controller with battery (uses the PCIe slot on PDSMAE+)	
Hard Drive(s)	Standard: 3 x Hot-Swap 500GB 7200 RPM ES SATA (RAID 5, 1TB total storage). Optional: 3 x Hot-Swap 1TB 7200 RPM ES SATA (RAID 5, 2TB total storage).	
Online Recording Storage (for analog & digital recording)	1TB total storage: 150,000 channel hours @ 13Kbps GSM (default) 245,000 channel hours @ 8Kbps G.729a 367,000 channel hours @ 5.3Kbps G723.1	2TB total storage: 300,000 channel hours @ 13Kbps GSM (default) 490,000 channel hours @ 8Kbps G.729a 734,000 channel hours @ 5.3Kbps G723.1
Optical Drive	DVD-ROM (removed if optional DVD-RAM is ordered)	
Archive Drive(s)	Optional: Single or Dual 9.4GB Panasonic DVD-RAM	
Audio, Video	SIIG Virtual 7.1-channel surround sound USB audio adapter; Integrated on-board XGI Z7 16MB video	
Network/LAN	Integrated on-board Dual Intel® PCI-e Gigabit LAN Optional: Intel® PRO/1000MT Single Port, PRO/1000MT Dual Port, or PRO/1000GT Quad Port NIC	
Other	Rack-mount ears included; Included rail kit: C89-170-0421. Use external USB modem (by others).	
Operating System, Database	Standard: Microsoft® Windows® XP Professional SP3, with SQL 2005 Express Database. Optional: Microsoft® Windows® Server 2003 Std Edition R2 w/5 CALs, with SQL 2005 Express. Optional: Microsoft® Windows® Server 2003 Std Edition R2 w/5 CALs, with SQL Server 2005/5 CALs.	
Dimensions (HxWxD), Weight	H 7.0" (178mm) x W 17.2" (437mm) x D 25.5" (648mm) Approx Weight 58 lbs (26.3kg)	
Power Supply, Electrical	Redundant Hot-Swap 800W power supplies w/ PFC; 100 - 240VAC (+/- 10%), 47-63 Hz.	
Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing Non-Operating Ranges: Temp -40 to +70°C (-40° to 158° F); Humidity 5 - 95%, non-condensing	
Peripherals Required	SVGA or better color display, keyboard, mouse, amplified external speakers	
RoHS Status	RoHS 5/6 (Server Exemption)	
Verint Order Code	C89-170-3203: Audiolog 3000-Series MAX-PRO/P4 Server	
Channel Capacities	2-Wire Analog: 120 Channels 2-Wire Digital: 120 Channels 4-Wire Digital: 60 Channels Mitel Digital (Series tap): 60 Channels ISDN-BRI (INS64): 120 Channels (60 BRI circuits @ 2 B-Channels each) T1 Interception: 240 Channels T1 Terminating: 240 Channels	E1 Interception: 240 Channels E1 Terminating: 240 Channels PCM32 Terminating: 224 Channels VoIP Interception: Varies depending on RTP media compression and method of acquisition VoIP Delivery: Varies depending on RTP media compression and method of acquisition
Expansion Chassis Availability	PCI Expansion Chassis currently available for the 3000-series MAX-PRO/P4 Server	

Technical Specifications: EXPANDED Audiolog 3000-Series MAX-PRO Server

Server Chassis	Two separate 4U rack-mountable chassis' are provided in the Expanded MAX-PRO/P4 solution:	
	 <p>4U Audiolog 3000-Series MAX-PRO Server (see specifications above)</p>	 <p>4U 7-slot PCI Expansion Chassis (specifications are provided below)</p>
PCI Expansion Technology	PCI expansion unit based on MAGMA PCI Expansion technology: Expands the Audiolog 3000-Series MAX-PRO Server, adding 7 PCI slots in a separate 4U Expansion Chassis.	
Host Server Interface Card	MAGMA Host Interface Card plugs into the PCI-X slot on the PDSMAE+ motherboard in the Audiolog 3000-Series Max-Pro Server (this eliminates one of the available Telephony Card slots in the Audiolog 3000-Series MAX-PRO server).	
Interface Cables, length	1 Meter long MAGMA interconnection cable (68-pin).	
Dual Chassis Location	The PCI Expansion Chassis must be located adjacent, above, or below the host Audiolog 3000-Series MAX-PRO server.	
PCI Expansion Slot Compatibility	All slots in the PCI Expansion chassis support full-length universal PCI and legacy 5 volt PCI cards	
Hard Drive	Recordings are stored on the host Audiolog 3000-Series MAX-PRO Server	
Archive Drive	Archiving is optionally provided on the host Audiolog 3000-Series MAX-PRO Server	
Audio, Video	Audio/video functions are provided on the host Audiolog 3000-Series MAX-PRO Server	
Network/LAN	Intel Single-port and Dual-port Network cards may be installed in the PCI Expansion Chassis. Intel Quad-port Network Interface card may <u>not</u> be installed in the PCI Expansion chassis.	
Expansion Chassis Operating System Compatibility	The MAGMA PCI Expansion technology is compatible with a host Audiolog server running either Microsoft® Windows® XP Professional or Microsoft® Windows® Server 2003.	
PCI Expansion Chassis Dimensions (HxWxD), Weight	H 7.0" (178mm) x W 17.2" (437mm) x D approx. 25" (635mm); Approx Weight 40 lbs (18.2kg) TOTAL vertical rack space required: 8U (14 inches / 356mm).	
Expansion Chassis Power Supply, Electrical	Redundant Hot-Swap 400W power supplies; 100 - 240VAC (+/- 10%), 47-63 Hz.	
PCI Expansion Chassis Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing Non-Operating Ranges: Temp -20 to +60°C (-4° to 140° F); Humidity 5 - 85%, non-condensing	
Other	Rack-mount ears included; Included rail kit: C89-170-0421	
RoHS Status	RoHS 5/6 (Server Exemption)	
Verint Order Code	C89-170-3204: EXPANDED Audiolog 3000-Series MAX-PRO Server (Only expansion chassis)	
Channel Capacities (Total capacities with PCI Expansion Chassis attached to Audiolog 3000-Series Max-Pro/P4 Server)	2-Wire Analog: 240 Channels 2-Wire Digital: 240 Channels 4-Wire Digital: 120 Channels Mitel Digital (Series tap): 120 Channels ISDN-BRI (INS64): 240 Channels (120 BRI circuits @ 2 B-Channels each) T1 Interception: 240 Channels T1 Terminating: 240 Channels	E1 Interception: 240 Channels E1 Terminating: 240 Channels PCM32 Terminating: 224 Channels VoIP Interception: Varies depending on RTP media compression and method of acquisition VoIP Delivery: Varies depending on RTP media compression and method of acquisition

Technical Specifications: Audiolog 3000-Series MAX-PRO/Quad-Core VoIP Server



Motherboard, Chassis	SUPERMICRO model PDSMAE+ Motherboard; SUPERMICRO 4U Rack-Mountable Chassis; Black
Processor	Intel® Xeon® Quad-Core X3220 2.40GHz (FSB 1066MHz, 8MB L2 Cache, EM64T, LGA 775)
Memory	4GB
RAID controller	Adaptec ASR-3405 PCI Express (PCI-e) 4-Ch RAID controller with battery (uses the PCIe slot on PDSMAE+)
Hard Drive	3 x Hot-Swap 146GB SAS (RAID 5, 292GB total storage).
Online Recording Storage (VoIP rates)	292GB total storage (approx. channel hours): 8,200 channel hours @ 64Kbps G.711 mono 4,100 channel hours @ 64Kbps G.711 stereo 66,000 channel hours @ 8Kbps G.729a mono 33,000 channel hours @ 8Kbps G.729a stereo 99,000 channel hours @ 5.3Kbps G723 mono 45,000 channel hours @ 5.3Kbps G723 stereo
Optical Drive	DVD-ROM (removed if optional DVD-RAM is ordered)
Archive Drive(s)	Optional: Single or Dual 9.4GB Panasonic DVD-RAM
Audio, Video	SIIG Virtual 7.1-channel surround sound USB audio adapter, Integrated on-board XGI Z7 16MB video
Network/LAN	Integrated on-board Dual Intel® PCI-e Gigabit LAN Optional: Intel® PRO/1000MT Single Port, PRO/1000MT Dual Port, or PRO/1000GT Quad Port NIC
Other	Rack-mount ears included; Included rail kit: C89-170-0421. Use external USB modem (by others).
Operating System, Database	Standard: Microsoft® Windows® Server 2003 R2 Std Edition/5 CALs, with SQL 2005 Express. Optional: Microsoft® Windows® Server 2003 R2 Std Edition/5 CALs, with SQL Server 2005/5 CALs .
Dimensions (HxWxD), Weight	H 7.0" (178mm) x W 17.2" (437mm) x D 25.5" (648mm) Approx Weight 58 lbs (26.3kg)
Power Supply, Electrical	Redundant Hot-Swap 800W power supplies w/ PFC; 100-240VAC (+/- 10%), 47-63 Hz
Operating Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing Non-Operating Ranges: Temp -40 to +70°C (-40° to 158° F); Humidity 5 - 95%, non-condensing
Peripherals Required	SVGA or better color display, keyboard, mouse, amplified external speakers
RoHS Status	RoHS 5/6 (Server Exemption)
Verint Order Code	C89-170-3205: Audiolog 3000-Series MAX-PRO/Quad-Core VoIP Server
Channel Capacities	VoIP: generally 100 to 120 channels (varies depending on RTP media compression and method of acquisition; refer to Audiolog software technical specifications for current capacities). Analog and Digital: Max-Pro/Quad-Core VoIP Server may be used for analog/digital recording. For capacities, refer to the specifications for the Audiolog 3000-Series Max-Pro/P4 Server.
Expansion Chassis Availability	PCI Expansion Chassis currently available for the 3000-series MAX-PRO/Quad-Core VoIP Server

Technical Specifications: Audiolog 3000-Series MAX-PRO/Quad-Core Trunked Radio Server



Motherboard, Chassis	SUPERMICRO model PDSMAE+ Motherboard; SUPERMICRO 4U Rack-Mountable Chassis; Black
Processor	Intel® Xeon® Quad-Core X3220 2.40GHz, FSB 1066MHz, 8MB L2 Cache, EM64T, LGA 775
Memory	4GB
RAID controller	Adaptec ASR-3805 PCI-Express (PCIe) 8-Ch RAID controller with battery (uses the PCIe slot on PDSMAE+)
Hard Drive	3 x Hot-Swap 146GB 15K RPM SAS (RAID 5, 292GB total storage, for O/S and recordings), PLUS 2 x Hot-Swap 73GB 15K RPM SAS (RAID 1 mirrored, for SQL database).
Online Recording Storage	292GB total storage (approx. channel hours): 40,000 channel hours @ 13Kbps GSM (default) for analog, T1/E1 Tap, or T1/E1 Terminating 66,000 channel hours @ 8Kbps G.729a for analog, T1/E1 Tap, or T1/E1 Terminating 99,000 channel hours @ 5.3Kbps G723.1 for analog, T1/E1 Tap, or T1/E1 Terminating 110,000 channel-hours @ 4.8Kbps native IMBE from M/A-Com P25ip Trunked Radio System 220,000 channel-hours @ 2.4Kbps native AMBE from M/A-Com OpenSky Trunked Radio System
Optical Drive	DVD-ROM
Archive Drive(s)	Use Audiolog Central Archiving Server for DVD-RAM archiving.
Audio, Video	SIIG Virtual 7.1-channel surround sound USB audio adapter, integrated on-board XGI Z7 16MB video
Network/LAN	Integrated on-board Dual Intel® PCI-e Gigabit LAN Optional: Intel® PRO/1000MT Single Port, PRO/1000MT Dual Port, or PRO/1000GT Quad Port NIC
Other	Rack-mount ears included; Included rail kit: C89-170-0421. Use external USB modem (by others).
Operating System, Database	Microsoft® Windows® Server 2003 Std Edition/5 CALs, with Microsoft® SQL Server 2000/5 CALs.
Dimensions (HxWxD), Weight	H 7.0" (178mm) x W 17.2" (437mm) x D 25.5" (648mm) Approx Weight 58 lbs (26.3kg)
Power Supply, Electrical	Redundant Hot-Swap 800W power supplies w/PFC; 100 - 240VAC (+/- 10%), 47-63 Hz.
Environment Requirements	Operating Ranges: Temp 10° to 35°C (50° to 95° F); Humidity 20 - 80%, non-condensing. Non-Operating Ranges: Temp -40 to +70°C (-40° to 158° F); Humidity 5 - 95%, non-condensing.
Peripherals Required	SVGA or better color display, keyboard, mouse, amplified external speakers
RoHS Status	RoHS 5/6 (Server Exemption)
Verint Order Code	C89-170-3206: Audiolog 3000-Series MAX-PRO/Quad-Core Trunked Radio Server
Channel Capacities	2-Wire Analog : 4 to 96 Channels T1 Interception: 24 to 240 Channels (for tapping AEB-DIU interconnections) E1 Interception: 15 to 240 Channels (for tapping AEB-MGEG interconnections) T1 Terminating: 24 to 96 Channels (for M/A-Com EDACS systems) VoIP Delivery: 10 to 100 Channels (for VNIC on M/A-Com OpenSky and M/A-Com P25ip systems)
Expansion Chassis Availability	PCI Expansion Chassis not available for the 3000-series MAX-PRO/Quad-Core Trunked Radio Server