Nexio+™ AMP®

Next-Generation Integrated and Shared Storage Media Server

Nexio+™ AMP® is the next step in the evolution of the acclaimed Nexio AMP® video server. Now combining industry-leading Hewlett Packard Enterprise standard server models and Imagine software/hardware bundle kits, Nexio+ AMP truly enables software-defined applications and delivers the exceptional reliability, flexibility and format transparency that broadcast operations demand. The Nexio+ AMP Advanced Media Platform is an efficient and integrated server platform for managing digital content from ingest to playout.

- **UHD and HDR Ready:** Supports Ultra High-Definition and High Dynamic Range video.
- **Easy to maintain:** Built on HPE IT platforms using an Imagine Communications-designed I/O card.
- **On-air reliability:** No single point of failure; redundant power, networks, media paths. High-availability SAN storage with patented Intrinsic Mirroring™ technology.
- **Flexible system designs:** System scales from small integrated servers to 1000+ channel SAN architecture. Pay as you go, online expansion of storage capacity and bandwidth.
- **Comprehensive range of software-based codecs and formats:** Add codecs through software upgrades and licensing.
- **Packed with value-added features for simple & efficient workflows:** Proxy generation, on-SAN editing, multichannel audio and more.

Features

- Hybrid baseband + IP capability
- Future-proofed, software-defined media server
- Zenium™ component technology for easy addition of next-generation audio and video processing capabilities
- New codecs added every year to maximize existing investment with incremental software and hardware upgrades
- Integrates uncompressed, compressed IP and UHD/HD/SD SDI I/O

Specifications

Nexio+™ AMP® 2RU

SYSTEM CONFIGURATION	
Server Hardware Features	2RU Rack Mount Up to 16 front-mounted hot-swappable media hard drives or SSDs 1+1 redundant hot-swappable power supply, 800W (100-240VAC) or 1400W (200-240VAC) High CFM cooling for 24/7 operation 2 Intel Xeon 64-bit Broadwell 8-core, 12-core, 14-core, or 18-core processors 64 GB DDR4 RAM expandable to 1536 GB 1+1 redundant front-mounted hot-swappable OS SSDs 4x 1GbE Ethernet Ports Optional additional 4x 1Gb, 2x 10Gb, 2x 25Gb, 2x 40Gb, 2x 50Gb, or 1x/2x 100Gb Ethernet Ports Quadruple-head monitor ports; 4x DisplayPort 1.4 with adapter to DVI-D 3 USB 3.0 ports (1 front, 2 rear) Dedicated Hewlett Packard Enterprise Integrated Lights-Out (iLO) Ethernet Port Windows® Server 2012 R2 Standard 64-bit Embedded OS GPU co-processing engine for advanced SD/HD/UHD Up/Down/Cross-conversion processing, Rec.601, Rec.709, and Rec.2020 SDR/HDR color-space conversion, and optional branding & graphics

SERVER PHYSICAL ATTRIBUTES	
Dimensions	SFF Drives: 3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)
Weight (approximate)	Minimum: 32.6 lb (14.759 kg) (Minimum - 8SFF server with 1xSFF HDD and 7 HDD blanks, 1x processor, 1x power supply (plus blank), 1x Flexible Smart Array, 1x Riser installed)
	Maximum: 51.5 lb (23.6 kg) (Maximum - 12 LFF hard drives, 2x processors, 2x power supplies, 1x Flexible Smart Array, 2x Risers installed)

POWER & COOLING		
BTU Rating	Maximum:	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
Power Supply Output (per power supply)	Rated Steady-State Power:	For 1400W Power Supply: 1400W (at 100 VAC), 1400W (at 240 VAC), 1400W (at 240 VAC) For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
	Maximum Peak Power:	For 1400W Power Supply: 1400W (at 100 to 127 VAC), 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only

System Inlet Temperature	Standard Operating Support:	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.
	Extended Ambient Operating Support:	For approved hardware configurations, the supported system inlet range is extended to be: 35° to 40°C (41° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). For approved hardware configurations, the supported system inlet range is extended to be: 5° to 45°C (41° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft).
	Non-operating:	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating:	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
	Non-operating:	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

Altitude	Operating:	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating:	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

ACOUSTIC NOISE

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

	Idle	**Operating**
L WAd	4.0 B Entry LFF 4.1 B Entry 4.2 B Base 5.7 B Base LFF 4.3 B Perf	4.3 B Entry LFF 4.6 B Entry 4.8 B Base 5.9 B Base LFF 5.6 B Perf
L pAm	23 dBA Entry LFF 24 dBA Entry 24 dBA Base 39 dBA Base LFF 25 dBA Perf	25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf

Note: The Listed sound levels apply to standard shipping configurations (Entry LFF, Entry, Base, Base LFF and Performance models) Additional options may result in increased sound levels. The Base LFF model leverages our High Efficiency Fans, other models are shipping with standard fan options.

EMISSIONS CLASSIFICATION (EMC)

FCC Rating	Class A
Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

VIDEO I/O FORMATS	
SD-SDI 270 Mb/s	SMPTE ST 259M 525i @ 29.97 fps, 625i @ 25 fps
HD/SDI 1.5 Gb/s	SMPTE ST 274M 1080i, 1080p, 1080PsF @ 23.98, 24, 25, 29.97 fps SMPTE ST 296M 720p @ 23.98, 24, 25, 29.97, 50, 59.94 fps
HD/SDI 3.0 Gb/s	SMPTE ST 425 Level-A 1080p @ 50, 59.94 fps
Quad-Link 6.0 Gb/	SMPTE ST 435, SMPTE 2036 2160p @ 23.98, 24, 25, 29.97 fps
Quad-Link 12.0 Gb/s	SMPTE ST 435, SMPTE ST 2036 2160p @ 50, 59.94 fps

CHANNEL CONFIGURATIONS	
SD-only	Up to 6 bidirectional channels All channels software license key (SLK) enabled Automatic aspect-ratio conversion (ARC) with Active Format Descriptor (AFD) support
Mixed SD/HD Up/Down/Cross-conversion	Up to 6 bidirectional channels Automatic input format detection Automatic aspect-ratio conversion (ARC) with Active Format Descriptor (AFD) support All channels software license key (SLK) enabled
UHD-1 Ultra Hi-Def	1 bidirectional channel

INPUTS & OUTPUTS		
Broadcast Signal I/O	HD/SDI Input Video:	6x High Density BNC (HD-BNC)
	HD/SDI Output Video:	6x High Density BNC (HD-BNC)
	AES/EBU Audio:	MDR to HD-BNC unbalanced connector breakout cable
	RS-422 Serial Control:	Optional 8x RS422 I/O Interface; RJ12 connectors. Includes cables and RJ12->DB9 adapters.
	RS-232 LTC Input:	DB9
	Reference Sync Input:	1x High Density BNC (HD-BNC) Analogue Bi-Level 1080i Tri-Level

AUDIO	
Inputs	4 pairs (8 channels) HD-BNC, unbalanced (AES/EBU) (optional) 8 pairs (16 channels) embedded HD-BNC
Outputs	4 pairs (8 channels) HD-BNC, unbalanced (AES/EBU) (optional) 8 pairs (16 channels) embedded HD-BNC
Storage	Up to 32 tracks of PCM uncompressed audio per ID Up to 8 channels per track compressed, up to 256 compressed audio channels per ID
Sample Precision	16-, 20- or 24-bit PCM, 48 kHz
Compressed Audio Pass-Through	Dolby® Digital (AC-3), Dolby® Digital Plus (E-AC-3), Dolby® E, DTS/DTS-HD pass through
Compressed Audio Playback	AAC/HE-AAC/HE-AACv2, MPEG1-LayerII (MP2)

CODECS SUPPORTED	
270 Mb/s SDI Video Formats	MPEG-2 I-Frame MPEG-2 Long-GOP IMX 30, 40, 50 (D-10) DVCPRO25, DVCPRO50 DVCAM (PAL only) DV (NTSC only) Apple ProRes LT/422/HQ H.264/AVC Long-GOP
1.5 Gb/s HD/SDI 1080i, 1080p/PsF, 720p Video Formats	MPEG-2 I-Frame & Long-GOP XDCAM HD/EX/422 AVC-Intra Class 50/100, AVC-Ultra Class 200 XAVC-Intra & Long-GOP H.264/AVC-HD Long-GOP DVCPRO HD Avid DNxHD Apple ProRes LT/422/HQ
3.0 Gb/s HD/SDI 1080p Video Formats	MPEG-2 I-Frame & Long-GOP XDCAM 422 AVC-Intra Class 100 (~200Mbps) XAVC-Intra & Long-GOP H.264/AVC-HD Long-GOP Avid DNxHR
6.0, 12.0 Gb/s UHD-1 2160p Video Formats	Apple ProRes LT/422/HQ H.264/AVC-UHD Long-GOP XAVC Long-GOP Class 188/300 XAVC-Intra Class 300/480

ASPECT RATIO	
HD (SD)	16:9, (16:9, 4:3)
Aspect Ratio Conversion	Up/down/cross conversion support with NTSC EIA- 608 <> 708 caption conversion Up/down/cross conversion support with PAL WST/OP42 <> OP47 caption conversion
AFD Support	Insert/fill/override embedded AFD metadata frame-by-frame on a per-ID or per-port basis SMPTE 2016 and ATSC TSG-814

TIMECODE I/O	
Serial	RS-232, RS-422 LTC time-of-day data from reference/sync generator BNC via NXUSBTC
LTC	Balanced Analogue
HD/SDI	SD VBI Read, generate, and write discontinuous VITC1 and VITC2, user-selectable lines
	HD HANC/VANC Read, generate, and write discontinuous ATC/LTC, ATC/VITC1, and ATC/VITC2, user-selectable data location
PTP	IP Multicast IEEE1588/SMPTE2059 Precision Time Protocol time-of-day data for baseband PTP timestamp used for 2022-6/-7 UCIP output frames

RS-422, TCP/UDP PROTOCOLS, & GPI CONTROL	
Serial Ports	Optional 8x RS-422 RJ12 ports. Includes cables and RJ12->DB9 adapters
GPI I/O 8	Optional 16x GPI input, 16x GPI output
Sony® BVW (9-pin) Protocol	TCP/IP, UDP Ethernet; RS-422 serial
Nexio® Native Control Protocol	TCP/IP, UDP Ethernet; RS-422 serial
Video Disk Control Protocol (VDCP)	TCP/IP Ethernet; RS-422 serial
Timeline Playlist/Macro API	TCP/IP Ethernet
Simple Network Management Protocol (SNMP)	UDP Ethernet
SYSLOG Operating System and Application Message Logging	TCP/IP Ethernet

FILE INTERCHANGE	
FTP	Supports 20+ simultaneous transactions; active and passive (FXP: File exchange protocol)
	Support for LXF, GXF, MXF OP1a, Self-Contained MOV (QuickTime), MP4/M4V
	Import support for Pinnacle, Quantel, MXF OP-Atom, MXF OP1b, Reference MOV (QuickTime), AS-03/-10/-11, MPEG-ES/PS/TS/MTS/EVO/VOB/M2V

SYSTEM CONFIGURATION	
Server Hardware Features	1RU Rack Mount Up to 8 front-mounted hot-swappable media hard drives or SSDs 1+1 redundant hot-swappable power supply, 800W (100-240VAC) or 1400W (200-240VAC) High CFM cooling for 24/7 operation 2 Intel Xeon 64-bit Haswell 8-core, 12-core, 14-core, or 18-core processors 64 GB DDR4 RAM expandable to 1536 GB 1+1 redundant front-mounted hot-swappable OS SSDs 4x 1GbE Ethernet Ports Optional additional 4x 1Gb, 2x 10Gb, 2x 25Gb, 2x 40Gb, 2x 50Gb, or 1x/2x 100Gb Ethernet Ports Triple-head monitor ports; 1x DVI-I (dual-link), 2x DisplayPort 1.2 with adapter to DVI-D 3 USB 3.0 ports (1 front, 2 rear) Dedicated Hewlett Packard Enterprise Integrated Lights-Out (iLO) Ethernet Port Windows® Server 2012 R2 Standard 64-bit Embedded OS GPU co-processing engine for advanced Up/Down-conversion processing and optional Channelbrand branding & graphics

SERVER PHYSICAL ATTRIBUTES	
Dimensions	8 SFF and 10 SFF 1.7 x 17.1 x 27.5 inches (4.32 x 43.47 x 69.85 cm)
Weight (approximate)	Minimum (one hard drive, power supply, and processor installed): 8SFF Model 27lb. (12.25 kg)
	Maximum (all hard drives, power supply, and processor installed): 8 SFF Model 33.3 lb. (15.31 kg) NOTE: Includes 2 SFF Option for a total of 10 SFF HDD

POWER & COOLING		
BTU Rating	Maximum:	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
Power Supply Output (per power supply)	Rated Steady-State Power:	For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
	Maximum Peak Power:	For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
System Inlet Temperature	Standard Operating Support:	10° to 35°C (50° to 95°F) at sea level with an altitudederatingof 1.0°Cperevery 305 m (1.8°F per every 1000ft) above sea level toamaximumof 3050 m (10,000ft), no direct sustained sunlight. Maximumrate of change is 20°C/hr(36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. Note: System performance during standard operating suppor tmay be reduced if operating with a fan fault or above 30°C(86°F).
Relative Humidity	Operating:	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
	Non-operating:	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

Altitude	Operating:	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating:	9144 m (30,000ft). Maximum allowable altitude change rate is 457 m/min (1500ft/min).

ACOUSTIC NOISE

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

	Idle	Operating
L WAd	(1P non-redundant) 4.6 A Average Bystander (2P redundant) 5.5 A Average Bystander	(1P non-redundant) 4.6 A Average Bystander (2P redundant) 6.2 C Average Bystander
L pAm	(1P non-redundant) 29 dBA (2P redundant) 37 dBA	(1P non-redundant) 30 dBA (2P redundant) 46 dBA

Note: 1P Configuration tested included two Intel E5-2630 v3, 2.3GHz processors, one 500GB SAS HDD, five standard hot plug fans, one 8GB DDR4 RDIMM's 2133MHz, one 500W power supply. 2P Configuration tested included two Intel E5-2650 v3, 2.6GHz processors, one 500GB SAS HDD, seven standard hot plug fans, two 16GB DDR4 RDIMM's 2133MHz, one 500W power supply, P440ar HDD controller PCI card with 2GB cache. Performance of system, options, and ancillary equipment will vary depending on the system configuration.

EMISSIONS CLASSIFICATION (EMC)

FCC Rating	Class A
Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1.

VIDEO I/O FORMATS

SD-SDI 270 Mb/s	SMPTE ST 259M 525i @ 29.97 fps, 625i @ 25 fps
HD/SDI 1.5 Gb/s	SMPTE ST 274M 1080i, 1080p, 1080PsF @ 23.98, 24, 25, 29.97 fps SMPTE ST 296M 720p @ 23.98, 24, 25, 29.97, 50, 59.94 fps
HD/SDI 3.0 Gb/s	SMPTE ST425 Level-A 1080p @ 50, 59.94 fps
Quad-Link 6.0 Gb/	SMPTE ST 435, SMPTE ST 2036 2160p @ 23.98, 24, 25, 29.97 fps
Quad-Link 12.0 Gb/s	SMPTE ST 435, SMPTE ST 2036 2160p @ 50, 59.94 fps

CHANNEL CONFIGURATIONS

SD-only	Up to 6 bidirectional channels All channels software license key (SLK) enabled Automatic aspect-ratio conversion (ARC) with Active Format Descriptor (AFD) support
Mixed SD/HD Up/Down/Cross-conversion	Up to 6 bidirectional channels Automatic input format detection Automatic aspect-ratio conversion (ARC) with Active Format Descriptor (AFD) support All channels software license key (SLK) enabled
UHD-1 Ultra Hi-Def	1 bidirectional channel

INPUTS & OUTPUTS		
Broadcast Signal I/O	HD/SDI Input Video:	6x High Density BNC (HD-BNC)
	HD/SDI Output Video:	6x High Density BNC (HD-BNC)
	AES/EBU Audio:	MDR to HD-BNC unbalanced connector breakout cable
	RS-422 Serial Control:	Optional 8x RS422 I/O Interface; RJ12 connectors. Includes cables and RJ12->DB9 adapters.
	RS-232 LTC Input:	DB9
	Reference Sync Input:	1x High Density BNC (HD-BNC) Analogue Bi-Level 1080i Tri-Level

AUDIO	
Inputs	4 pairs (8 channels) HD-BNC, unbalanced (AES/EBU) (optional) 8 pairs (16 channels) embedded HD-BNC
Outputs	4 pairs (8 channels) HD-BNC, unbalanced (AES/EBU) (optional) 8 pairs (16 channels) embedded HD-BNC
Storage	Up to 32 tracks of PCM uncompressed audio per ID Up to 8 channels per track compressed, up to 256 compressed audio channels per ID
Sample Precision	16-, 20- or 24-bit PCM, 48 kHz
Compressed Audio Pass-Through	Dolby® Digital (AC-3), Dolby® Digital Plus (E-AC-3), Dolby® E, DTS/DTS-HD pass through
Compressed Audio Playback	AAC/HE-AAC/HE-AACv2, MPEG1-LayerII (MP2)

CODECS SUPPORTED	
270 Mb/s SDI Video Formats	MPEG-2 I-Frame MPEG-2 Long-GOP IMX 30, 40, 50 (D-10) DVCPRO25, DVCPRO50 DVCAM (PAL only) DV (NTSC only) Apple ProRes LT/422/HQ H.264/AVC Long-GOP
1.5 Gb/s HD/SDI 1080i, 1080p/PsF, 720p Video Formats	MPEG-2 I-Frame & Long-GOP XDCAM HD/EX/422 AVC-Intra Class 50/100, AVC-Ultra Class 200 XAVC-Intra & Long-GOP H.264/AVC-HD Long-GOP DVCPRO HD Avid DNxHD Apple ProRes LT/422/HQ
3.0 Gb/s HD/SDI 1080p Video Formats	MPEG-2 I-Frame & Long-GOP XDCAM 422 AVC-Intra Class 100 (~200Mbps) XAVC-Intra & Long-GOP H.264/AVC-HD Long-GOP Avid DNxHR
6.0, 12.0 Gb/s UHD-1 2160p Video Formats	Apple ProRes LT/422/HQ H.264/AVC-UHD Long-GOP XAVC Long-GOP Class 188/300 XAVC-Intra Class 300/480

ASPECT RATIO	
HD (SD)	16:9, (16:9, 4:3)
Aspect Ratio Conversion	Up/down/cross conversion support with NTSC EIA- 608 <> 708 caption conversion Up/down/cross conversion support with PAL WST/OP42 <> OP47 caption conversion
AFD Support	Insert/fill/override embedded AFD metadata frame-by-frame on a per-ID or per-port basis SMPTE 2016 and ATSC TSG-814

TIMECODE I/O	
Serial	RS-232, RS-422 LTC time-of-day data from reference/sync generator BNC via NXUSBTC
LTC	Balanced Analogue
HD/SDI	SD VBI Read, generate, and write discontinuous VITC1 and VITC2, user-selectable lines
	HD HANC/VANC Read, generate, and write discontinuous ATC/LTC, ATC/VITC1, and ATC/VITC2, user-selectable data location
PTP	IP Multicast IEEE1588/SMPTE2059 Precision Time Protocol time-of-day data for baseband PTP timestamp used for 2022-6/-7 UCIP output frames

RS-422, TCP/UDP PROTOCOLS, & GPI CONTROL	
Serial Ports	Optional 8x RS-422 RJ12 ports. Includes cables and RJ12->DB9 adapters
GPI I/O 8	Optional 16x GPI input, 16x GPI output
Sony® BVW (9-pin) Protocol	TCP/IP, UDP Ethernet; RS-422 serial
Nexio® Native Control Protocol	TCP/IP, UDP Ethernet; RS-422 serial
Video Disk Control Protocol (VDCP)	TCP/IP Ethernet; RS-422 serial
Timeline Playlist/Macro API	TCP/IP Ethernet
Simple Network Management Protocol (SNMP)	UDP Ethernet
SYSLOG Operating System and Application Message Logging	TCP/IP Ethernet

FILE INTERCHANGE	
FTP	Supports 20+ simultaneous transactions; active and passive (FXP: File exchange protocol)
	Support for LXF, GXF, MXF OP1a, Self-Contained MOV (QuickTime), MP4/M4V
	Import support for Pinnacle, Quantel, MXF OP-Atom, MXF OP1b, Reference MOV (QuickTime), AS-03/-10/-11, MPEG-ES/PS/TS/MTS/EVO/VOB/M2V

Ordering Information

NEXIO+ AMP 1RU AND 2RU TURNKEY PLATFORMS	
NXPA290B	Nexio+ AMP 2RU turnkey platform, 8 empty HDD/SSD drive bays (no RAID). Up to 5 HD channels; Basic Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 16 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA290P	Nexio+ AMP 2RU turnkey platform, 8 empty HDD/SSD drive bays (no RAID). Up to 6 HD, 1 UHD channels; Performance Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 16 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA290X	Nexio+ AMP 2RU turnkey platform, 8 empty HDD/SSD drive bays (no RAID). Up to 6 HD, 1 UHD channels; Extreme Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 16 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA290R	Nexio+ AMP 2RU turnkey platform, 8 empty HDD/SSD drive bays (no RAID). Up to 6 HD, 1 UHD channels; Ridiculous Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 16 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA290D	Nexio+ AMP 2RU turnkey, UP Tto 6 HD or 1 UHD channel; Daft ED. CPU INC, redundant OS SSD, 64GB
NXPA190B	Nexio+ AMP 1RU turnkey platform. Up to 5 HD channels; Basic Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase 10GbE NIC, 1GbE NIC, or SAS internal RAID with 8 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA190P	Nexio+ AMP 1RU turnkey platform. Up to 6 HD, 1 UHD channels; Performance Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 8 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA190X	Nexio+ AMP 1RU turnkey platform. Up to 6 HD, 1 UHD channels; Extreme Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 8 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA190R	Nexio+ AMP 1RU turnkey platform. Up to 6 HD, 1 UHD channels; Ridiculous Edition CPU. 64GB, redundant 2x OS SSD, GPU, 4x 1Gb Ethernet included, and Windows Embedded Server 2012R2 standard. Purchase Fibre Channel HBA, 10GbE NIC, 1GbE NIC, or SAS internal RAID with 8 SSD/HDD bays as needed per customer storage and I/O requirement.
NXPA190D	Nexio+ AMP 1RU turnkey, UP Tto 6 HD or 1 UHD channel; Daft ED. CPU INC, redundant OS SSD, 64GB

CHANNEL & CODEC SOFTWARE LICENSES	
PLSHD1CH	Nexio+ 1x SD/HD Playback & Encode Channel License, includes royalty for MPEG2/XDCAM, H.264/AVC-Intra/XAVC, DV/DVCam/DVCPro, Avid DNxHD, JPEG2000, and Apple ProRes codecs
PLSUHDCH	Nexio+ 1x UHD Playback & Encode Channel License, includes royalty for MPEG2, H.264/XAVC, Avid DNxHR, JPEG2000, and Apple ProRes codecs
PLSPR1CH	Nexio+ 1x Proxy Encode Channel License for both Nexio AMP Server with internal proxy and for standalone Proxy Transcode engine. Up to 6 channels per server and up to 24 channels for Proxy Transcode engine.

NEXIO+ AMP OPTIONS	
PLHMA5AO	MA500 Server Express AES and LTC I/O interface option; adds to existing single-slot Server Express I/O interface to create a dual-slot PCIe board. Adds 4-pair input and 4-pair output AES discrete audio and LTC timecode input for 4 HD/SDI I/O channels. Includes necessary AES breakout cables to BNC connectors.

NEXIO+ AMP & APPLIANCE NETWORK OPTIONS	
PLHP10GC	Intel® X540 2-port 10GBase-T (Copper) LOM NIC for HP 1RU and 2RU platforms. 2x 3m CAT6a Ethernet cables included.
PLHP10GI	Intel® 82599 2-port 10GbE LOM NIC for HP 1RU and 2RU platforms. Includes 2x 10Gbps SFP and 2x 5m LC-LC 50/125µ multimode fibre cables.
PLHP10GE	Emulex XE-102 2-port 10GbE LOM NIC for HP 1RU and 2RU platforms. Includes 2x 10Gbps SFP and 2x 5m LC-LC 50/125µ multimode fibre cables.
PLHP10GM	Mellanox Connect X-3 Pro 2-port 10GbE LOM NIC for HP 1RU and 2RU platformsIncludes 2x 10Gbps SFP and 2x 5m LC-LC 50/125µ multimode fibre cables.
PLHP40GM	Mellanox Connect X-3 Pro 2-port 10/40GbE, 56 Gb/s Fourteen Data Rate (FDR) InfiniBand LOM NIC for HP 1RU and 2RU platforms.
PLHP01GI	Intel® i350 4-port 1GbE LOM NIC for HP 1RU and 2RU platforms. 4x 3m CAT6a Ethernet cables included.
PLH2FC8G	ATTO 2-port 8Gbps Fibre Channel HBA. Includes 2x 8Gbps SFP and 2x 5m LC-LC 50/125µ multimode fibre cables.

Images/Diagrams

Nexio+™ AMP® 1RU

Nexio+™ AMP® 2RU Back

Nexio+™ AMP® 1RU Back