



NXP1504
NXP1502
NXP754
NXP752



 **Dante™** SPOKEN HERE

NXP MULTI-MODE AMPLIFIERS

POWER AMPLIFIERS w/ SELECTABLE OUTPUTS & PROTEA DSP

NX Multi-Mode Power Amplifiers are designed to meet the most demanding live sound and fixed installation sound systems in stadiums, arenas, performance venues, worship spaces and convention centers.

Available in three amplifier series, NX offers 2 or 4-channel models as NX (base model series), NXE (networkable), or NXP (networkable + DSP).

All NXP Models Include:

Class-D Switching Amplifier Technology. NXP features a universal switch-mode power supply with Power Factor Correction (PFC) that operates from 70VAC to 270VAC.

Multi-Mode Operation. Selectable Outputs allow you to choose the desired output mode on each channel. Set the DIP-switch configuration for Low Impedance (2, 4, and 8 Ohm), or 25V, 70V, or 100V Constant Voltage and you're set to go.

Energy Efficiency. NXP has power-saving Ashly EMS™ (Energy Management System) which provides an automatic sleep-mode drawing less than 1 Watt (defeatable).

Ethernet Control using Protea™ NE software. Also, serial data control by Ashly programmable remotes or third party controllers, aux preamp outputs, instant standby mode, preset recall, fault condition logic outputs, optional Dante™, CobraNet™, or AES3 digital audio capability (factory-installed).

Real-Time Clock with Event Scheduler. Assign automatic execution of selected functions and tasks. The event scheduler is programmed from software and stored in the amplifier.

Ashly Remote Control via iPad® app. Use our free Ashly Remote app available for custom design of secure wireless control over network.

32-bit SHARC DSP Processing at 48kHz or 96kHz Sample Rates. Comprehensive software control of digital signal processing, matrix and auto-mixing, built-in signal generator for test tone and noise-masking, swept output load impedance monitoring. Use Ashly Remote iPad control to select DSP functions including gain, mute, matrix, A/B source select, PEQ filter level, and meters.

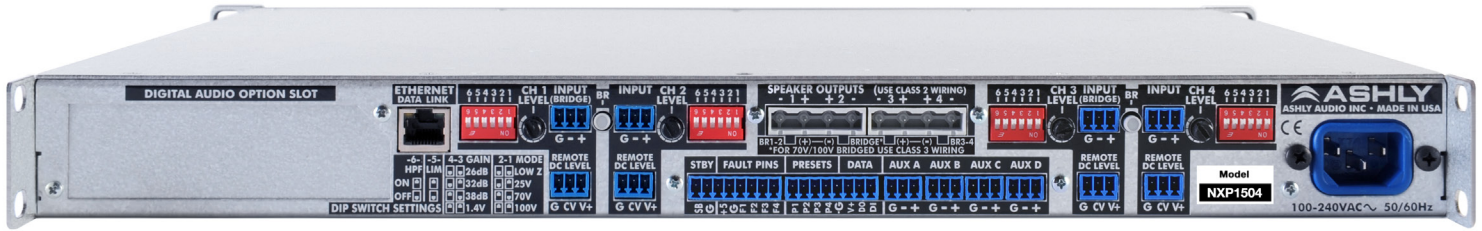
FIR Filter-Ready. Our PnE software will load a speaker manufacturer's .fir or .csv file to achieve precision tuning.

| nXp Series | 150 Watt Models | | 75 Watt Models | |
|---|-----------------|----------|----------------|---------|
| | nXp 1504 | nXp 1502 | nXp 754 | nXp 752 |
| Channels | 4 | 2 | 4 | 2 |
| <i>*Max Output Power: Measured in Watts Per Channel, Low Impedance Output Mode, All Channels Driven at Rated Load</i> | | | | |
| 2 Ohms | 150 | 150 | 75 | 75 |
| 4 Ohms | 150 | 150 | 75 | 75 |
| 8 Ohms | 150 | 150 | 75 | 75 |
| <i>*Low Impedance Output Mode, Bridged Output: Measured in Watts, All Channels Driven at Rated Load</i> | | | | |
| 4 Ohms | 300 | 300 | 150 | 150 |
| 8 Ohms | 300 | 300 | 150 | 150 |
| <i>*25V, 70V, 100V Constant Voltage Output Mode: Measured in Watts, All Channels Driven at Rated Load</i> | | | | |
| 25V (per channel) | 150 | 150 | 75 | 75 |
| 70V (per channel) | 150 | 150 | 75 | 75 |
| 100V (per channel) | 150 | 150 | 75 | 75 |
| <i>Total AC Mains Power Draw: Measured in Watts, Typical input, all channels driven, 120VAC</i> | | | | |
| Sleep Mode | < 1 | < 1 | < 1 | < 1 |
| Standby Mode | 25 | 15 | 25 | 15 |
| Idle (no signal) | 53 | 33 | 53 | 33 |
| ½ Max Power @ 2 Ohms | 230 | 133 | 142 | 82 |
| <i>Current Draw: Measured in Amps, Typical Input, Total for all Channels, 120VAC, Divide by 2 for 240VAC</i> | | | | |
| Sleep Mode | 94mA | 94mA | 94mA | 94mA |
| Standby Mode | 0.27 | 0.2 | 0.27 | 0.2 |
| Idle (no input signal) | 0.50 | 0.35 | 0.50 | 0.35 |
| ½ Max Power @ 2 Ohms | 2.2 | 1.16 | 1.24 | 0.76 |
| <i>Thermal Dissipation: BTU/hr, Typical Input, Total for all Channels</i> | | | | |
| Sleep mode | 2.14 | 2.14 | 2.14 | 2.14 |
| Standby mode | 86.4 | 51 | 86.4 | 51 |
| Idle (no input signal) | 180 | 112 | 180 | 112 |
| ½ Max Power @ 2 Ohms | 505 | 325 | 355 | 215 |

* Measurements based on CEA-2006/490A, 20ms 1kHz 1% THD+N, 480ms 1kHz -20dB.

† <1W sleep mode can be defeated for applications that are subject to third-party performance standards that prohibit a sleep mode, including those used for Mass Notification and Emergency Communication Systems and those subject to ANSI/UL 2572.

Note: When making a true comparison of energy efficiency, one must look at the Thermal Dissipation (BTU/hr) numbers for a product. All other efficiency, i.e. "percentage" numbers are not standards based, and therefore may be marketing hype. Ashly Audio builds highly efficient Class-D amplification with SMPS that will equal or surpass the competition on BTU/hr thermal output (unused energy given off as heat). Please check our published BTU/hr specifications for more information.



Rear Panel Configuration (4-Channel nXp Shown)

NXP Additional Features:

- Selectable 80Hz 2nd-order Hi-pass filter, limiter, and input gain per channel
- Remote DC level control per channel
- Extensive protection circuitry, continuously variable cooling fan
- Ethernet port for software control and monitoring of amplifier functions, with front panel COM activity LED
- Serial data port available for Ashly WR-5 and RD-8C programmable remote control (optional RS-232 converter INA-1 available for third party controllers)
- Instant Standby Mode, 40% reduction in idle power consumption, triggered by contact closure, software control, or event scheduler
- Preset recall via contact closure, software control, remote control, or event scheduler
- Programmable power-on delay
- Aux preamp line outputs for driving other amplifiers
- Fault condition logic outputs per channel
- Comprehensive software controlled DSP including dynamics, gain, equalization, matrix mixer, crossover, delay, and metering.
- Additional iPad control of select DSP functions including gain, matrix, A/B source select, PEQ filter level, and meters
- Precision swept load impedance monitoring of individual amplifier channels for remote diagnosis of speaker problems
- Signal generator function for test and noise masking
- Remote gain and zone control with neWR-5 and FR-8/FR-16 programmable networked remotes
- Euroblock input connectors
- Euroblock loudspeaker connectors
- Detachable AC mains line-cord connector
- Safety/Compliance: cTUVus (pending), CE, FCC, RoHS

| Specifications | Notes: 0dBu = 0.775 VRMS |
|--|---|
| Voltage Gain | Selectable at 26dB, 32dB, 38dB, or 1.4V |
| Damping Factor | >250 (8 Ohm load <1kHz) |
| Input High Pass Filter | 80Hz 2nd order |
| Distortion (SMPTE, typical) | <0.5% |
| Distortion (THD-N, typical) | <0.5% (8 Ohms, 10dB below rated power, 20Hz-20kHz) |
| Channel Separation | -75dB (dB from full output, 1kHz) |
| Signal-to-Noise (unweighted) 20Hz-20kHz, Gain@26dB | >99dB (all 150x models) >96dB (all 75x models) |
| Frequency Response | 20Hz-20kHz, +/-0.05dB |
| Balanced Input Connector | Euroblock 3.5mm |
| Input Impedance | 10k Ohms |
| Maximum Input Level | +21dBu |
| Speaker Output Connector | Euroblock 7.62mm |
| Control Network | RJ-45 connector, 100MB Ethernet |
| AUX Output Connector | Balanced Euroblock 3.5mm |
| AUX Output Maximum Level | +21dBu |
| Remote Standby Contact Closure | Euroblock 3.5mm, close contact pin to ground (G) for standby mode |
| Preset Recall Contact Closure | Euroblock 3.5mm, close contact to ground (G) for preset 1-4 recall |
| Data Connection | Euroblock 3.5mm - Gnd, +18V, Data Out, Data In |
| Fault Condition Logic Outputs | Euroblock 3.5mm - fault indicated by loss of 1Hz "heartbeat" pulse signal |
| Remote DC Level Control | Euroblock 3.5mm - Gnd, CV, V+ per input |
| Attenuators (per channel) | Rear panel, software, offset link group, remote control. Fully off = Mute |
| Amplifier Protection | Shorted output power limiting, over-temperature, DC-output, power-supply fault, mains-fuses & inrush-current limiting |
| Cooling | Continuously variable temperature controlled fan |
| Environmental | 32°F-120°F, (0°C-49°C) non-condensing |

| Power Requirements (50 – 60Hz) | |
|--------------------------------|--|
| Nominal Voltage Input | 100 – 240VAC |
| Operating Range | 70 – 270VAC |
| Minimum power-up | 70VAC |
| Power Supply Type | SMPS with active PFC (Power Factor Correction) |
| AC Mains Line Cord Connector | Detachable Nema 5-15 for USA (May vary for export) |

| Weights and Dimensions | |
|------------------------|--|
| Unit Dimensions | 19"W x 1.75"H x 14.54"D (483mm x 45mm x 369mm) |
| Shipping Dimensions | 25.2"W x 2.5"H x 19.5"D (641mm x 64mm x 495mm) |
| Unit Weight | 1504/754 13.1lbs (5.9kg), 1502/752 12.1lbs (5.5kg) |
| Shipping Weight | 1504/754 16.0lbs (7.3kg), 1502/752 15.0lbs (6.8kg) |

| Front Panel LED Indicators | |
|----------------------------|---|
| POWER (white) | Switch: On, Off, Standby (flashing) |
| PROTECT (red) | On (fault condition or shut down), Off |
| SLEEP (blue) | On, amplifier is asleep from audio inactivity |
| DISABLE (yellow) | On, power switch & attenuators are disabled |
| COM (green) | On, for Ethernet data or Device ID |
| Per Channel | |
| CLIP/MUTE (red) | Clip @ 1dB below rated output / Mute |
| SIGNAL (green) | -18dB below rated output |
| CURRENT (green) | Brightness is proportional to output current |
| TEMP (yellow) | On dim at 90% max operating temperature, On full bright + protect at 100% |
| BRIDGE (green) | Per Channel Pair, On, Off |

| Remote Accessories | |
|--------------------|---|
| WR-1 | 2-Channel Level Control |
| WR-1.5 | Level and Preset Recall |
| WR-2 | Four-Position Preset Recall Switch |
| WR-5 | Programmable Button Controller |
| neWR-5 | Programmable Network Button Controller |
| FR-8 | 8-Channel Network Fader Remote |
| FR-16 | 16-Channel Network Fader Remote |
| RD/RW-8C | Serial Data Fader Remote |
| Ashly Remote | Remote Control Application for Apple® iPad®, iPhone®, and iPod Touch® |

| Digital Input Options (Factory installed) | |
|--|--|
| Dante® Digital Interface <small>(NXE, NXP only)</small> part number: OPDante | |
| CobraNet® Digital Interface <small>(NXE, NXP only)</small> part number: CNM-2 | |
| AES3 2-ch input w/ AES3 pass-thru <small>(2-ch models only)</small> part number: OPAES2 | |
| AES3 4-ch input w/ AES3 pass-thru <small>(4-ch models only)</small> part number: OPAES4 | |



Protēa™

DIGITAL SIGNAL PROCESSING FOR NXP AMPLIFIERS

Protea is compatible with Microsoft® Windows 10, 8, 7 (Vista/XP) 32 & 64 bit systems.

Audio professionals find our Protea DSP to be very intuitive and easy to navigate—and you will too. No need to attend a one-week training class away from home to learn our software. Common sense layout of controls and features, on-line help, or a visit to the Technical Support page on our website provides answers to all of your questions. Protea DSP is designed for the nXp Amplifier, Pema™, ne Series Amplifiers and Processors, the ne24.24M Matrix Processor, and Protea System Processors.



| Protea™ DSP Specifications for nXp Amplifiers | |
|---|--|
| All DSP functions can be linked to 1 of 16 link groups | |
| Input Source Selection | |
| Input Source Select Options | Analog (optional Network, AES3) |
| Brick Wall Limiter | |
| Threshold | -20dBu to +20dBu |
| Ratio | Infinite |
| Attack | 0.2mS/dB to 50 mS/dB |
| Release | 5mS/dB to 1000mS/dB |
| Compressor | |
| Threshold | -20dBu to +20dBu |
| Ratio | 1.2:1 to infinite |
| Attack | 0.2mS to 50mS |
| Release | 5mS/dB to 1000mS/dB |
| Detector | Peak/Average |
| Attenuation Bus | 2 available |
| Metering | In, Out, Attenuation, superimpose on graph |
| Autoleveler Controls | |
| Target Level | -40dBu to +20dBu |
| Action | Gentle, Normal, Aggressive, User-Defined |
| Maximum Gain | 0dB to +22dB |
| Metering | Input, Gain, Attenuation |
| Ratio | 1.2:1 to 10:1 |
| Threshold Below Target | -30dB to 0dB |
| Gain Increase/Decrease Rate | 5mS/dB to 1000mS/dB |
| Hold Time | 0-6 Sec |
| Ambient Noise Compensation: Output Only | |
| Max Gain | -20dB to +20dB |
| Min/Base Gain | -40dB to +20dB |
| Gain Change Rate | 0.2S/dB to 20S/dB |
| Link Group | 16 Available |
| ANC Input Channel | 1-2 or 1-4 |
| Noise Threshold | -40dBu to +20dBu |
| Program/Ambient Gain Ratio | 0.3:1 to 3:1 |
| Metering | Input level, Attenuation, Average noise |
| Ducking: High/Low Priority, Trigger, Filibuster, Ducked Program | |
| Trigger Threshold | -80dBu to +20dBu |
| Ducking Release | 5mS/dB to 1000mS/dB |
| Ducking Depth | 0dB to -30dB, -∞ |
| Enable Ducking at Matrix Mixer | Yes |
| Metering | Input |

| Gate | |
|--|--|
| Threshold | -80dBu to +20dBu |
| Range | off, 100dB to 0dB |
| Attack | 0.2mS/dB to 50mS/dB |
| Release | 5mS/dB to 1000mS/dB |
| Metering | Key Signal, Gate LED, Graphical |
| Advanced Gate Controls | |
| Key Engage Enable | Yes |
| Key Frequency | 20Hz-20kHz |
| Key Bandwidth | 0.016 to 3.995 Octave |
| Gain | |
| Gain (with/without VCA) | -50dB to +12dB, Off, Polarity Invert |
| Digital VCA Groups | 4 Available |
| Remote RD8C Gain | Enable (per channel), 0dB to -∞ |
| WR-5 (neWR-5) Remote Gain | 0 to -50dB, Mute |
| EQ: FIR Filter (Output only, 48kHz only, 2-384 Taps) | |
| File Type | .CSV, .FIR (input FBS is disabled on channel using output FIR) |
| EQ: 31-Band | |
| Filter Type | Constant Q or Proportional |
| Bandwidth | 0.499oct to 0.25oct |
| EQ: Parametric 2,4,6, or 10 Band | |
| Frequency | 20-20kHz |
| Level | -30dB to +15dB |
| Q Value | 92.436 to 0.267 |
| EQ: Hi/Low Shelf 6/12 dB/Oct | |
| Frequency | 20Hz-20kHz |
| Level | -15dB to +15dB |
| EQ: All Pass | |
| Frequency | 20Hz-20kHz |
| EQ: Variable Q, HP/LP | |
| Frequency | 20Hz-20kHz |
| Q Value | 3.047-0.267 |
| EQ: Notch/Bandpass | |
| Frequency | 20Hz-20kHz |
| Q Value | 92.436 to 0.267 |
| Feedback Suppressor: Inputs Only, 48kHz only | |
| Filters | 12 |
| In/Out (per filter) | Yes |
| Lock (per filter) and Global Lock | Yes |
| Filter Modes | Float, Restricted, Manual |
| Filter Type | Notch, Parametric |

| Filter Frequency Range | 20Hz-20kHz |
|---|--------------------------|
| Notch Filter | -∞ |
| Parametric Filter | +15dB to -30dB |
| Filter Bandwidth | 0.016 to 3.995 Octave |
| Detector Sensitivity | 5 levels |
| Float Time | 5 minutes to 24 hours |
| Crossover: 2-Way, 3-Way, 4-Way Crossover & High Pass/Low Pass Filters | |
| Bessel & Butterworth Filters | 12/18/24/48 dB/oct |
| Linkwitz-Riley Filter | 12/24/48 dB/oct |
| Frequency | Off, 20Hz-20kHz |
| Delay: @ 48kHz Sampling Rate (Input Time, Distance & Temperature) | |
| Speaker Delay | 0-21mS |
| Delay | 0-682mS |
| Delay: @ 96kHz Sampling Rate (Input Time, Distance & Temperature) | |
| Speaker Delay | 0-10.6mS |
| Delay | 0-341mS |
| Audio Metering Tool | |
| Range | -60dBu to +20dBu |
| Increments | 1dB |
| Peak Hold Indicator | Yes |
| Signal Generator Tool: Pink Noise, White noise, Sine Wave | |
| Signal Level | Off, -50dBu to +20dBu |
| Sine Wave Frequency | 20Hz-12KHz |
| Matrix Mixer | |
| Gain (0.5dB increments) | Off, -50 to +12dB |
| Mute | Per Channel |
| Auto-Mixer Enabled | Per Channel |
| Global Auto-Mixer Response | 0.01Sec to 2Sec |
| Enable Ducking at Mixer | Yes |
| Ducking LED | Per Channel (if enabled) |
| Metering | Level, Auto-mixer Level |
| Processors | |
| Input A/D, Output D/A | 24-Bit |
| DSP Processors | 32-Bit Floating Point |
| Sample Rates | 48kHz, 96kHz |
| Propagation Delay @ 48kHz: | 1.42mS |
| Propagation Delay @ 96kHz: | 0.71mS |



NXP SERIES

ARCHITECT & ENGINEERING SPECS

nXp1504

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 150W per channel at Low Z, 150W per channel in 25V mode, 150W per channel in 70V mode, and 150W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, and fault condition logic output per channel. The unit shall have optional factory installed network audio or AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <13.1 lbs (5.9kg), measure 19”W x 1.75”H x 14.54”D (483mm x 45mm x 369mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp1504**.

nXp1502

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 150W per channel at Low Z, 150W per channel in 25V mode, 150W per channel in 70V mode, and 150W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, and fault condition logic output per channel. The unit shall have optional factory installed network audio or AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <12.1 lbs (5.5kg), measure 19”W x 1.75”H x 14.54”D (483mm x 45mm x 369mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp1502**.

nXp754

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 75W per channel at Low Z, 75W per channel in 25V mode, 75W per channel in 70V mode, and 75W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, and fault condition logic output per channel. The unit shall have optional factory installed network audio or AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <13.1 lbs (5.9kg), measure 19”W x 1.75”H x 14.54”D (483mm x 45mm x 369mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp754**.

nXp752

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 75W per channel at Low Z, 75W per channel in 25V mode, 75W per channel in 70V mode, and 75W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, and fault condition logic output per channel. The unit shall have optional factory installed network audio or AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <12.1 lbs (5.5kg), measure 19”W x 1.75”H x 14.54”D (483mm x 45mm x 369mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp752**.