















Multi-Mode Operation

2 Ohm Stable

Ashly EMS™

Power Factor

Ashly Remote

Protea"

NXP1502 **NXP754** NXP752





### 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<sup>™</sup>, 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 PneS software will load a speaker manufacturer's .fir or .csv file to achieve precision tuning.

	15	0 Watt Models	75	Watt Models
nXp Series	nXp 1504	nXp 1502	nXp 754	nXp 752
Channels	4	2	4	2
*Max Output Power: Measure	d in Watts Per Channel,	Low Impedance Outpu	t Mode, All Channels D	riven at Rated Load
2 Ohms	150	150	75	75
4 Ohms	150	150	75	75
8 Ohms	150	150	75	75
*Low Impedance Output Mo	de, Bridged Output: M	easured in Watts, All (	Channels Driven at Rat	ed Load
4 Ohms	300	300	150	150
8 Ohms	300	300	150	150
*25V, 70V, 100V Constant Vo	ltage Output Mode: N	leasured in Watts, All (	Channels Driven at Ra	ted Load
25V (per channel)	150	150	75	75
70V (per channel)	150	150	75	75
100V (per channel)	150	150	75	75
Total AC Mains Power Draw: Measured in Watts, Typical input, all channels driven, 120VAC				
Sleep Mode	<1	<1	<1	<1
Standby Mode	25	15	25	15
Idle (no signal)	53	33	53	33
1/4 Max Power @ 2 Ohms	230	133	142	82
Current Draw: Measured in Amps, Typical Input, Total for all Channels, 120VAC, Divide by 2 for 240VAC			240VAC	
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
1/2 Max Power @ 2 Ohms	2.2	1.16	1.24	0.76
Thermal Dissipation: BTU/hr, Typical Input, Total for all Channels				
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
1/4 Max Power @ 2 Ohms	505	325	355	215

<sup>\*</sup> Measurements based on CEA-2006/490A, 20mS 1kHz 1% THD+N, 480mS 1kHz -20dB.

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.

<sup>‡ &</sup>lt;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.

### 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

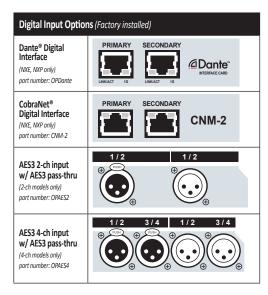
Specifications	Notes: OdBu = 0.775 VRMS
Voltage Gain	Selectable at 26dB, 32dB, 38dB, or 1.4V
Damping Factor	>250 (8 Ohm load <1kHz)
Input High Pass Filter	80Hz 2nd order
Distortion (SMPTE, typical)	<0.5%
Distortion (THD-N, typical)	<0.5% (8 Ohms, 10dB below rated power, 20Hz–20kHz)
Channel Separation	-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-tem- perature, 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	120VAC - 240VAC	
Operating Range	70VAC – 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®	





# Protea™

### 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	<u>. • • • • • • • • • • • • • • • • • • •</u>	
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	
	bac	

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 RDBC 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 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: Variable Q HP/LP  Frequency 20Hz−20kHz  Level -15dB to +15dB  EQ: Variable Q HP/LP  Frequency 20Hz−20kHz  Q Value 3.047−0.267  EQ: Notch/Bandpass  Frequency 20Hz−20kHz  Q Value 9.2436 to 0.267  Feedback Suppressor: Inputs Only, 48kHz only  Filters 12  In/Out (per filter) Yes  Lock (per filter) and Global Lock  Filter Modes Float, Restricted, Manual  Filter Type Notch, Parametric	Gate		
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 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: 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  Fequency 20Hz−20kHz  EQ: Notch/Bandpass  Frequency 20Hz−20kHz  Q Value 92.436 to 0.267  Fequency 20Hz−20kHz  Filters 12  In/Out (per filter) Yes  Lock (per filter) and Global Lock Yes  Filter Modes	Threshold	-80dBu to +20dBu	
Release SmS/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 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: Variable Q HP/LP  Frequency 20Hz-20kHz  EQ: Variable Q HP/LP  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  Feq: Notch/Bandpass  Frequency 20Hz-20kHz  Q Value 3.047-0.267  Feq: Notch/Bandpass  Frequency 20Hz-20kHz  Q Value 92.436 to 0.267  Feq: Notch/Bandpass  Frequency 20Hz-20kHz  Q Value 92.436 to 0.267  Feq: 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  Filter Modes Float, Restricted, Manual	Range	off, 100dB to 0dB	
MeteringKey Signal, Gate LED, GraphicalAdvanced Gate ControlsKey Engage EnableYesKey Frequency20Hz-20kHzKey Bandwidth0.016 to 3.995 OctaveGainSodB to +12dB, Off, Polarity InvertDigital VCA Groups4 AvailableRemote RD8C GainEnable (per channel), 0dB to -∞WR-5 (neWR-5) Remote Gain0 to -50dB, MuteEQ: FIR Filter (Output only, 48kHz only, 2-384 Taps)File TypeCostant Q or ProportionalBandwidth0.499oct to 0.25octEQ: 31-BandCostant Q or ProportionalBandwidth0.499oct to 0.25octEQ: Parametric 2,4,6, or 10 BandFrequency20-20kHzLevel-30dB to +15dBQ Value92.436 to 0.267EQ: Hi/Low Shelf 6/12 dB/OctFrequency20Hz-20kHzLevel-15dB to +15dBEQ: All PassFrequency20Hz-20kHzQ Value3.047-0.267EQ: Variable Q HP/LPFrequency20Hz-20kHzQ Value3.047-0.267EQ: Notch/BandpassFrequency20Hz-20kHzQ Value92.436 to 0.267Feedback Suppressor: Inputs Only, 48kHz onlyFilters12In/Out (per filter)YesLock (per filter) and Global LockYesFilter ModesFloat, Restricted, Manual	Attack	0.2mS/dB to 50mS/dB	
Advanced Gate ControlsKey Engage EnableYesKey Frequency20Hz-20kHzKey Bandwidth0.016 to 3.995 OctaveGain-50dB to +12dB, Off, Polarity InvertDigital VCA Groups4 AvailableRemote RD8C GainEnable (per channel), 0dB to -∞WR-5 (neWR-5) Remote Gain0 to -50dB, MuteEQ: FIR Filter (Output only, 48kHz only, 2-384 Taps)File TypeCSV, FIR (input FBS is disabled on channel using output FIR)EQ: 31-BandConstant Q or ProportionalBandwidth0.499oct to 0.25octEQ: Parametric 2,4,6, or 10 BandFrequency20-20kHzLevel-30dB to +15dBQ Value92.436 to 0.267EQ: Hi/Low Shelf 6/12 dB/OctFrequency20Hz-20kHzLevel-15dB to +15dBEQ: All PassFrequency20Hz-20kHzEQ: Variable Q HP/LPFrequency20Hz-20kHzQ Value3.047-0.267EQ: Notch/BandpassFrequency20Hz-20kHzQ Value3.047-0.267EQ: Notch/BandpassFrequency20Hz-20kHzQ Value92.436 to 0.267Feedback Suppressor: Inputs Only, 48kHz onlyFilters12In/Out (per filter)YesLock (per filter) and Global LockYesFilter ModesFloat, Restricted, Manual	Release	5mS/dB to 1000mS/dB	
Key Engage Enable Yes   Key Frequency 20Hz-20kHz   Key Bandwidth 0.016 to 3.995 Octave   Gain —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 —600 Constant Q or Proportional   Bandwidth 0.499oct to 0.25oct   EQ: Parametric 2,4,6, or 10 Band —700 Constant Q or Proportional   Frequency 20-20kHz   Level -30dB to +15dB   Q Value 92.436 to 0.267   EQ: Hi/Low Shelf 6/12 dB/Oct —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Level -15dB to +15dB   EQ: Hi/Low Shelf 6/12 dB/Oct —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Level -15dB to +15dB   EQ: All Pass —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Q Value 3.047-0.267   EQ: Variable Q HP/LP —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Q Value 3.047-0.267   EQ: Notch/Bandpass —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Q Value 3.047-0.267   Equation Constant Q or Proportional —700 Constant Q or Proportional   EQ: Notch/Bandpass	Metering	Key Signal, Gate LED, Graphical	
Key Frequency  Key Bandwidth  Quiter State State Suppressor: Inputs Only, 48kHz only, 2-30kHz  EQ: All Pass Frequency  Quiter State Suppressor: Inputs Only, 48kHz only, 48kHz only, 2-10kHz  EQ: Variable Quiter State Suppressor: Inputs Only, 48kHz only, 500kHz  EQ: 31-Band Filter Type  Constant Q or Proportional Bandwidth  Quiter State Stat	Advanced Gate Controls		
Key Bandwidth 0.016 to 3.995 Octave   Gain —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 —6000 Constant Q or Proportional   Bandwidth 0.499oct to 0.25oct   EQ: Parametric 2,4,6, or 10 Band —7000 Constant Q or Proportional   Frequency 20-20kHz   Level -30dB to +15dB   Q Value 92.436 to 0.267   EQ: Hi/Low Shelf 6/12 dB/Oct —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Level -15dB to +15dB   EQ: All Pass —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Level -15dB to +15dB   EQ: Variable Q HP/LP —700 Constant Q or Proportional   Frequency 20Hz-20kHz   Q Value 3.047-0.267   EQ: Notch/Bandpass —700 Constant Q or Proportional   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	Key Engage Enable	Yes	
Gain Gain (with/without VCA) Gain (with/without VCA) Jigital VCA Groups A Available Remote RD8C Gain File Type Constant Q or Proportional Bandwidth Filter Type Constant Q or Proportional Bandwidth O.499oct to 0.25oct EQ: Parametric 2,4,6, or 10 Band Frequency Level Jada to 1.5dB Q Value 92.436 to 0.267 EQ: All Pass Frequency 20Hz-20kHz Level -15dB to +15dB EQ: All Pass Frequency 20Hz-20kHz Level -15dB to +15dB EQ: Variable Q HP/LP Frequency 20Hz-20kHz Level -15dB to +25dB EQ: Variable Q HP/LP Frequency 20Hz-20kHz Frequency Registrated to Alexandra Frequency Registrated Transported Transport	Key Frequency	20Hz–20kHz	
Gain (with/without VCA)  Digital VCA Groups  A Available  Remote RD8C Gain  WR-5 (neWR-5) Remote Gain  Uto -50dB, Mute  EQ: FIR Filter (Output only, 48kHz only, 2-384 Taps)  File Type  CSY, 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  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  Fequency  20Hz-20kHz  Q Value  3.047-0.267  Fequency  20Hz-20kHz  Q Value  3.047-0.267  Fequency  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  Filter Modes  Float, Restricted, Manual	Key Bandwidth	0.016 to 3.995 Octave	
Digital VCA Groups  Remote RD8C Gain  Remote RD8C Gain  WR-5 (neWR-5) Remote Gain  Uto -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  EQ: Variable Q HP/LP  Frequency  20Hz−20kHz  Q Value  3.047−0.267  EQ: Notch/Bandpass  Frequency  20Hz−20kHz  Q Value  3.047−0.267  Fequency  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  Filter Modes  Float, Restricted, Manual	Gain		
Remote RD8C Gain  Remote RD8C Gain  WR-5 (neWR-5) Remote Gain  Uto -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  EQ: Variable Q HP/LP  Frequency  Q Value  3.047−0.267  EQ: Notch/Bandpass  Frequency  Q Value  92.436 to 0.267  Fequency  Q Value  3.047−0.267  Fequency  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  Filter Modes  Float, Restricted, Manual	Gain (with/without VCA)	-50dB to +12dB, Off, Polarity Invert	
WR-5 (neWR-5) Remote Gain 0 to -50dB, Mute  EQ: FIR Filter (Output only, 48kHz only, 2-384 Taps)  File Type	Digital VCA Groups	4 Available	
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  EQ: Variable Q HP/LP  Frequency  20Hz–20kHz  Q Value  3.047–0.267  EQ: Notch/Bandpass  Frequency  20Hz–20kHz  Q Value  3.047–0.267  Fequency  Q Value  92.436 to 0.267  Fequency  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  Filter Modes  Filter Modes	Remote RD8C Gain	Enable (per channel), 0dB to -∞	
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  EQ: Variable Q HP/LP  Frequency  20Hz-20kHz  Q Value  3.047-0.267  EQ: Notch/Bandpass  Frequency  20Hz-20kHz  Q Value  3.047-0.267  Feedback Suppressor: Inputs Only, 48kHz only  Filters  12  In/Out (per filter)  Yes  Lock (per filter) and Global Lock  Filter Modes  Filter Modes	WR-5 (neWR-5) Remote Gain	0 to -50dB, Mute	
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: 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  Filter Modes  Float, Restricted, Manual	EQ: FIR Filter (Output only, 48kHz o	only, 2–384 Taps)	
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	File Type		
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 Filter Modes  Float, Restricted, Manual	EQ: 31-Band		
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 Filter Modes Float, Restricted, Manual	Filter Type	Constant Q or Proportional	
Frequency         20–20kHz           Level         -30dB to +15dB           Q Value         92.436 to 0.267           EQ: Hi/Low Shelf 6/12 dB/Oct         Frequency           Frequency         20Hz–20kHz           Level         -15dB to +15dB           EQ: All Pass         Frequency           Frequency         20Hz–20kHz           Q: Variable Q HP/LP         Value           Frequency         20Hz–20kHz           Q Value         3.047–0.267           EQ: Notch/Bandpass         Frequency           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	Bandwidth	0.499oct to 0.25oct	
Level	EQ: Parametric 2,4,6, or 10 Band		
Q Value   92.436 to 0.267	Frequency	20–20kHz	
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  Filter Modes Float, Restricted, Manual	Level	-30dB to +15dB	
Frequency         20Hz-20kHz           Level         -15dB to +15dB           EQ: All Pass         Frequency           Frequency         20Hz-20kHz           EQ: Variable Q HP/LP         Frequency           Frequency         20Hz-20kHz           Q Value         3.047-0.267           EQ: Notch/Bandpass         Frequency           Q Value         92.436 to 0.267           Feedback Suppressor: Inputs Only, 48kHz only         Filters           12         In/Out (per filter)           Lock (per filter) and Global Lock         Yes           Filter Modes         Float, Restricted, Manual	Q Value	92.436 to 0.267	
Level       -15dB to +15dB         EQ: All Pass       20Hz-20kHz         Frequency       20Hz-20kHz         EQ: Variable Q HP/LP       Value         Frequency       20Hz-20kHz         Q Value       3.047-0.267         EQ: Notch/Bandpass       Frequency         Q Value       92.436 to 0.267         Feedback Suppressor: Inputs Only, 48kHz only       Filters         12       In/Out (per filter)         Lock (per filter) and Global Lock       Yes         Filter Modes       Float, Restricted, Manual	EQ: Hi/Low Shelf 6/12 dB/Oct		
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	Frequency	20Hz-20kHz	
Frequency         20Hz–20kHz           EQ: Variable Q HP/LP         Prequency           Prequency         20Hz–20kHz           Q Value         3.047–0.267           EQ: Notch/Bandpass         Prequency           Q Value         92.436 to 0.267           Feedback Suppressor: Inputs Only, 48kHz only         Filters           In/Out (per filter)         Yes           Lock (per filter) and Global Lock         Yes           Filter Modes         Float, Restricted, Manual	Level	-15dB to +15dB	
EQ: Variable Q HP/LP           Frequency         20Hz-20kHz           Q Value         3.047-0.267           EQ: Notch/Bandpass         Prequency           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	EQ: All Pass		
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	Frequency	20Hz-20kHz	
Q Value         3.047–0.267           EQ: Notch/Bandpass         Prequency           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	EQ: Variable Q HP/LP		
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	Frequency	20Hz–20kHz	
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	Q Value	3.047-0.267	
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	EQ: Notch/Bandpass		
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	Frequency	20Hz-20kHz	
Filters         12           In/Out (per filter)         Yes           Lock (per filter) and Global Lock         Yes           Filter Modes         Float, Restricted, Manual	Q Value	92.436 to 0.267	
In/Out (per filter) Yes Lock (per filter) and Global Lock Yes Filter Modes Float, Restricted, Manual	Feedback Suppressor: Inputs Only, 48kHz only		
Lock (per filter) and Global Lock Yes Filter Modes Float, Restricted, Manual	Filters	12	
Filter Modes Float, Restricted, Manual	In/Out (per filter)	Yes	
	Lock (per filter) and Global Lock	Yes	
Filter Type Notch, Parametric	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 Nois	e, 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 120VAC or 240VAC mains and operate from 70VAC to 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 eptional factory installed network audio or AES3 digital audio capability. 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 pur

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 120VAC or 240VAC mains and operate from 70VAC to 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

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 in 25V mode, 75W per channel in 25V mode, 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 120VAC or 240VAC mains and operate from 70VAC to 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 accept

The power amplifier shall be an Ashly nXp754.

### nXn752

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 in 25V mode, 75W per channel in 25V mode, 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 120VAC or 240VAC mains and operate from 70VAC to 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 accept

The power amplifier shall be an Ashly nXp752.