

# NE Series Eight-Channel Amplifiers

## NE Series specifications

ne8250 | ne8250pe | ne8250.25 | ne8250.25pe | ne8250.70 | ne8250.70pe | ne8250.10 | ne8250.10pe |



Connecting and controlling an amplifier for networked systems has now been simplified with Ashly’s NE Series amplifiers. Network Enabled (NE) amplifiers offer ease of use, setup and control using standard 10/100 Ethernet protocol and Protea NE Software. No special outboard control units are needed.

Eight, eight-channel models with output power at 250W are available to fill a wide variety of low impedance, 25V, 70V and 100V performance installation or constant voltage applications. NE Series amplifiers are offered two ways; standard input with euroblock connectors and “pe” (Protea Enabled) with euroblock input connectors and world renowned Protea DSP signal processing.

The DSP signal processing library is extensive and utilizes two SHARC 32-bit/96kHz processors. Processing blocks include Graphic, Parametric, Notch and Shelving Equalization, High-, Low- and All-Pass Filters (HPF/LPF/APF) with up to 48dB/Octave slopes, Delay, Compressor/Limiter, Gate, Ducking, Auto-leveler, Gain and Signal Generators (sinewave, white and pink noise). A full Matrix Mixer with assignable routing allows any input to drive any or all amplifier outputs. Presets can be used to store and retrieve global parameters of an entire amplifier’s control surface and DSP section.

Additionally, each amplifier also provides DC voltage control of the attenuators which makes it a snap to control volume from remote locations, preset recall, Remote Power Standby and data in and out ports for connecting accessories like the WR-5 to control user selected parameters. There are LED indicators for power, standby, protect, network communications and each channel has a four-step signal meter, bridge mono, temperature and current indicators.

Four-channel Mic-pre, AES/EBU, EtherSound, and Cobranet modules will be available as options. Four-channel NE series amplifiers are also available

### Features:

- Eight Channel Amplifier
- Ethernet control is standard
- Low-Z, 25V, 70V and 100V Models
- Extensive DSP Available
- Easy and intuitive user interface
- Extensive protection circuitry
- Safety/Compliance: CE, FCC, RoHS
- Optional CobraNet, EtherSound, AES/EBU, Mic Preamps

### Front panel:

- Level attenuators for each channel
- Power switch can be disabled by software
- 4-Step Signal Level and Clip LEDs

### Rear panel:

- 10/100 Ethernet port
- Euroblock inputs
- Euroblock outputs
- Remote level control
- Preset recall
- Remote power standby
- Data in and out ports

### Watts per channel

Model	8 ohms	4 ohms	25V/70V/100V
ne8250	150	250	NR
ne8250.25	NR	NR	250
ne8250.75	NR	NR	250
ne8250.10	NR	NR	250

### Input Options

Four-Channel Mic Pre  
AES/EBU  
CobraNet  
EtherSound

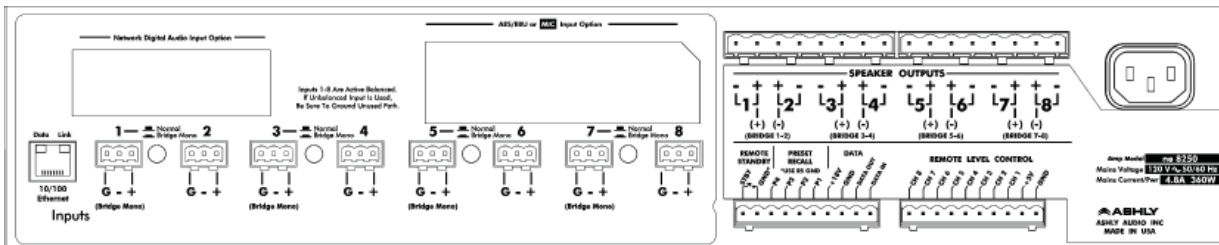
### Accessories

WR-1 2-ch Level Control  
WR-2 Four Position Switch  
WR-5 Programmable Selector  
neWR-5 Programmable Network Remote  
neRD-8/16 Network Fader Remotes

ne8250	ne8250.25	ne8250.70	ne8250.10
ne8250pe	ne8250.25pe	ne8250.70pe	ne8250.10pe

Rated Power 8 ohms (per channel)	150W	NR	NR	NR
Rated Power 4 ohms (per channel)	250W	NR	NR	NR
Rated Power 8 ohms (Bridged)	500W	NR	NR	NR
Rated Power 25V, 70V, 100V (per channel)	NR	250W	250W	250W
S/N (20 Hz-20 kHz, unweighted)	>105dB	>105dB	>105dB	>105dB
1/8th Output (Pink Noise)	31.25W	31.25W	31.25W	31.25W
1/8th Draw (Pink Noise)	360W	360W	360W	360W
1/8th Current (Pink Noise)	4.8A	4.8A	4.8A	4.8A
Idle Power	35W	35W	35W	35W
Idle Current	0.5A	0.5A	0.5A	0.5A
Weight: Net Shipping	21.0 lbs. (9.53kg) 26.0 lbs. (11.79kg)	21.0 lbs. (9.53kg). 26.0 lbs. (11.79kg)	21.0 lbs. (9.53kg). 26.0 lbs. (11.79kg)	21.0 lbs. (9.53kg). 26.0 lbs. (11.79kg)

Frequency Response (8 ohms)	20 Hz - 20k Hz, (unweighted) ±1dB
Input Impedance	20k ohms, balanced
Input Sensitivity	6.2dBu
Maximum Input Level	+21dBu
Internal HPF (25V, 70V, 100V models)	(controlled by software) 80Hz (12dB/oct), 400Hz (6dB/oct), and OFF
Damping Factor (8 ohms)	> 250
Cooling	Temperature dependent speed-controlled fan (Front in, Side out)
Output Circuitry	Class D
Connectors (each channel)	Input - Euroblock Output - Euroblock
Front Controls	AC Power Switch, Individual input attenuators
Front indicators (LED color)	Power (Blue), Standby (Yellow), Protect (Red), Disable (Yellow), Com (Green), Bridge (Green), Signal Level -18dB, -12dB (Green), -6dB (Yellow), Clip (Red), Temp (Yellow)
Rear Controls	Ethernet 10/100, Channel bridge switch (Low-Z only), Remote standby, Preset recall (4), Remote Level (8), Remote Data
Amplifier and Load Protection	Output Overcurrent, Main Supply Rail Overvoltage, Chassis Temperature, Inrush Limiting, Mains Fuse
Cordset	15A Edison 3-Prong IEC
Dimensions	Height: 3.50" (88.9mm) 2RU Width: 19" (483 mm) Depth: 15.5" (394mm)
Environmental	40-120deg. F, (4-49deg. C) noncondensing



Notes:  
 OdBu = 0.775 VRMS  
 Power ratings are per channel at 1% THD+N

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## Professional Power Amplifiers

4-8 ohm Models



## Architect & Engineering Specs

### ne8250

The eight-channel power amplifier shall deliver a minimum power of 150 watts RMS per channel into 8 ohm loads and 250 watts RMS per channel into 4 ohm loads with all channels operating. When switched into bridged-mono mode, channels 1+2 or 3+4 or 5+6 or 7+8 of the amplifier shall deliver at least 500 watts RMS into an 8 ohm load. The power amplifier shall include Euroblock input connectors and Euroblock output connectors. It shall have balanced analog inputs. The power amplifier shall have remote standby for power up, DC remote level control and contact closure preset recall. It shall have Ethernet control and monitoring of power functions, level, mute, polarity, temperature, current, and amplifier fault conditions. Frequency response shall be 20Hz to 20kHz  $\pm$  1.0dB. Signal-to-Noise shall be greater than 98dB unweighted and SMPTE intermodulation distortion shall be less than .5% into an 8 ohm load, 10dB below rated output. The front panel shall provide the status of power, standby, protect, power switch disable, signal level, bridge, over-temperature, over-current, and Ethernet communication. The amplifier shall mount in a standard 19 inch rack using two spaces (3.5. high) and weigh 21 pounds (10kg) or less.

The power amplifier shall be an Ashly model **ne8250**

The power amplifier with a factory installed AES option shall be an Ashly model **ne8250d**

The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne8250c**

The power amplifier with a factory installed EtherSound option shall be an Ashly model **ne8250e**

### ne8250 with DSP Option

The eight-channel power amplifier shall deliver a minimum power of 150 watts RMS per channel into 8 ohm loads and 250 watts RMS per channel into 4 ohm loads with all channels operating. When switched into bridged-mono mode, channels 1+2 or 3+4 or 5+6 or 7+8 of the amplifier shall deliver at least 500 watts RMS into an 8 ohm load. The power amplifier shall include Euroblock input connectors and Euroblock output connectors. It shall have balanced analog inputs. The power amplifier shall have remote standby for power up, DC remote level control and contact closure preset recall. It shall have Ethernet control and monitoring of power functions, level, mute, polarity, temperature, current, and amplifier fault conditions. Frequency response shall be 20Hz to 20kHz  $\pm$  1.0dB. Signal-to-Noise shall be greater than 98dB unweighted and SMPTE intermodulation distortion shall be less than .5% into an 8 ohm load, 10dB below rated output. The front panel shall provide the status of power, standby, protect, power switch disable, signal level, bridge, over-temperature, over-current, and Ethernet communication. The power amplifier shall have an internal factory installed digital signal processing (DSP) option controlled using Protea (network enabled) software. Each amplifier input channel shall be configured with pluggable DSP blocks to have its own dynamics control, gain functions, graphic and/or parametric EQ, Hi-pass/Lo-pass filters, time delay, metering, and test signal generator. A mixer section with assignable routing shall allow any input to drive any or all amplifier outputs. Outputs shall have the same DSP functions as inputs, with the addition of a fast, automated crossover setup. Both inputs and outputs shall copy/paste their settings to other channels, or link with one or more other channels to track their settings. Presets shall be used to store and retrieve global parameters of an amplifier's control surface and DSP section from a file. Sub-Presets shall allow for a collection of individual DSP function parameters within and across both channels of an amplifier to be stored and recalled as a set, affecting only those parameters which have been tagged. Up to 35 presets/sub-presets shall be stored within the amplifier, and shall be recalled in real time via Ethernet from a computer using Protea software. The amplifier shall mount in a standard 19 inch rack using two spaces (3.5. high) and weigh 21 pounds (10kg) or less.

The power amplifier shall be an Ashly model **ne8250pe**

The power amplifier with a factory installed AES option shall be an Ashly model **ne8250ped**

The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne8250pec**

The power amplifier with a factory installed EtherSound option shall be an Ashly model **ne8250pee**

Visit [www.ashly.com](http://www.ashly.com) to download Protea NE software and data sheets

## Professional Power Amplifiers

70V Models



## Architect & Engineering Specs

### ne8250.70

The eight-channel power amplifier shall deliver a minimum power of 250 watts RMS per channel into 70V loads with all channels operating. When switched into bridged-mono mode, channels 1+2 or 3+4 or 5+6 or 7+8 of the amplifier shall deliver at least 500 watts RMS into a 140V load. The power amplifier shall include Euroblock input connectors and Euroblock output connectors. It shall have balanced analog inputs. The power amplifier shall have remote standby for power up, DC remote level control and contact closure preset recall. It shall have Ethernet control and monitoring of power functions, level, mute, polarity, temperature, current, and amplifier fault conditions. Frequency response shall be 20Hz to 20kHz  $\pm$  1.0dB. Signal-to-Noise shall be greater than 98dB unweighted and SMPTE intermodulation distortion shall be less than .5% into an 8 ohm load, 10dB below rated output. The front panel shall provide the status of power, standby, protect, power switch disable, signal level, bridge, over-temperature, over-current, and Ethernet communication. The amplifier shall mount in a standard 19 inch rack using two spaces (3.5. high) and weigh 21 pounds (10kg) or less.

The power amplifier shall be an Ashly model **ne8250.70**

The power amplifier with a factory installed AES option shall be an Ashly model **ne8250.70d**

The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne8250.70c**

The power amplifier with a factory installed EtherSound option shall be an Ashly model **ne8250.70e**

### ne8250.70 with DSP Option

The eight-channel power amplifier shall deliver a minimum power of 250 watts RMS per channel into 70V loads with all channels operating. When switched into bridged-mono mode, channels 1+2 or 3+4 or 5+6 or 7+8 of the amplifier shall deliver at least 500 watts RMS into a 140V load. The power amplifier shall include Euroblock input connectors and Euroblock output connectors. It shall have balanced analog inputs. The power amplifier shall have remote standby for power up, DC remote level control and contact closure preset recall. It shall have Ethernet control and monitoring of power functions, level, mute, polarity, temperature, current, and amplifier fault conditions. Frequency response shall be 20Hz to 20kHz  $\pm$  1.0dB. Signal-to-Noise shall be greater than 98dB unweighted and SMPTE intermodulation distortion shall be less than .5% into an 8 ohm load, 10dB below rated output. The front panel shall provide the status of power, standby, protect, power switch disable, signal level, bridge, over-temperature, over-current, and Ethernet communication. The power amplifier shall have an internal factory installed digital signal processing (DSP) option controlled using Protea (network enabled) software. Each amplifier input channel shall be configured with pluggable DSP blocks to have its own dynamics control, gain functions, graphic and/or parametric EQ, Hi-pass/Lo-pass filters, time delay, metering, and test signal generator. A mixer section with assignable routing shall allow any input to drive any or all amplifier outputs. Outputs shall have the same DSP functions as inputs, with the addition of a fast, automated crossover setup. Both inputs and outputs shall copy/paste their settings to other channels, or link with one or more other channels to track their settings. Presets shall be used to store and retrieve global parameters of an amplifier's control surface and DSP section from a file. Sub-Presets shall allow for a collection of individual DSP function parameters within and across both channels of an amplifier to be stored and recalled as a set, affecting only those parameters which have been tagged. Up to 35 presets/sub-presets shall be stored within the amplifier, and shall be recalled in real time via Ethernet from a computer using Protea software. The amplifier shall mount in a standard 19 inch rack using two spaces (3.5. high) and weigh 21 pounds (10kg) or less.

The power amplifier shall be an Ashly model **ne8250.70pe**

The power amplifier with a factory installed AES option shall be an Ashly model **ne8250.70ped**

The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne8250.70pec**

The power amplifier with a factory installed EtherSound option shall be an Ashly model **ne8250.70pee**

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