









NE4250 NE8250







NE SERIES

ERIES MULTI-CHANNEL, NETWORK-ENABLED POWER AMPLIFIERS

Our multi-channel *ne* (*Networked-Enabled*) Series Amplifiers are uniquely designed around an energy efficient Class-D platform with a switching power supply.

Connecting and controlling an amplifier for networked systems has now been simplified with ne Amplifiers. This line offers ease of use, setup and control using standard 10/100 Ethernet protocol and *Protea™ ne Software*. No special outboard control units are needed.

Choose either the *ne4250* (4-channel) or *ne8250* (8-channel) packages rated at 250W per channel, with separate Hi-Z and Low-Z models. ne Series Amplifiers are offered in two separate platforms—the standard network amplifier or a network amplifier with an on-board *Protea[™] DSP Processor*. Each can be customized for any installation by adding your choice of AES3 inputs, mic pre inputs*, CobraNet* or Dante* modules.

ne4250 & ne8250 Features:

- 10/100 Ethernet comes standard for remote control and monitoring
- Low-Z, 25V, 70V, 100V models
- Protea DSP, AES3, CobraNet® and Dante® input options
- DC voltage remote gain control
- Switched-mode power supply, Class-D output
- Stepped, calibrated input attenuators
- Remote power standby
- Disable all front panel controls via software
- Temperature sensitive variable speed fan with front-to-back airflow
- Selectable HPF frequencies (80Hz, 400Hz, off) on 25V, 70V, and 100V models
- 4-stage level meters
- Output current and temp indicators
- Safety/Compliance: cTUVus, CE, FCC, RoHS

| Front Panel | | |
|------------------------------|--------|--|
| Controls | | Individual input attenuators, AC Power Switch |
| Cooling | | Temp dependent speed-controlled fan (Front in, Side out) |
| LED Indicators: Unit Status | | |
| POWER | Blue | Switch: On, Off |
| STANDBY | Yellow | Standby, flashing |
| PROTECT | Red | On, Off |
| DISABLE | Yellow | On, Off |
| COM | Green | On, for Ethernet data or Device ID |
| LED Indicators: Each Channel | | |
| | Red | Clip |
| SIGNAL LEVEL | Yellow | -6dB |
| | Green | -18dB, -12dB |
| BRIDGE | Green | Per Channel Pair |
| TEMP | Yellow | Per Channel |
| CURRENT | Green | Per Channel: Proportional to output |

| Remote Accessories | |
|--------------------|---|
| WR-1 | 2-Channel Level Control |
| WR-1.5 | Level and Preset Recall |
| WR-2 | Four-Position Switch |
| WR-5* | Programmable Button Controller |
| neWR-5* | Programmable Network Remote |
| 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® |

| ne Models | ne4250 | ne8250 |
|--|--------------------|--------------|
| Channels | 4 | 8 |
| Continuous Average Power Outpu Stereo Mode, All Channels Driven | t: Per Channel, L | ow Z models, |
| 8 Ohms | 150W | 150W |
| 4 Ohms | 250W | 250W |
| Low Z Output: Bridge Mode, All Ch | nannels Driven | |
| 8 Ohms | 500W | 500W |
| 25V, 70V, 100V Distributed Output | : Models: 20Hz–2 | 20kHz 1% THD |
| 25V (per channel | 250W | 250W |
| 70V (per channel) | 250W | 250W |
| 100V (per channel) | 250W | 250W |
| Line Current Draw: 120VAC Mains | (divide in half fo | r 230V) |
| Standby Mode | 190mA | 290mA |
| Idle (no signal) | 540mA | 565mA |
| Typical (1/8 power pink noise) | 2.85A | 5.00A |
| Maximum (1/3 power pink noise) | 6.00A | 11.0A |
| Thermal Dissipation: BTU/hr, All C | hannels Driven | |
| Standby mode | 46.7 | 63.8 |
| Idle (no signal) | 123 | 187 |
| Typical (1/8 power pink noise) | 341 | 700 |
| Maximum (1/3 power pink noise) | 378 | 775 |
| Signal to Noise | | - |
| 20–20k, Unweighted | >107dB | >107dB |







ne8250 Rear Panel

NE SERIES MULTI-CHANNEL, NETWORK-ENABLED POWER AMPLIFIERS

| Constituent and | Notes Odby 0 775 VDAG |
|--|--|
| Specifications | Note: 0dBu = 0.775 VRMS |
| Frequency Response | 20Hz-20kHz, (unweighted) ±1dB |
| Input Impedance | 20k Ohms, Balanced |
| Voltage Gain | 26dB (Low-Z), 32dB (70V), 35dB (100V) |
| Input Sensitivity | 6.2dBu (Low-Z), 4.2dBu (25V), 7.2dBu (70V), 7.2dBu (100V) |
| Maximum Input Level | +21dBu |
| Software Contolled Internal HPF (25V, 70V, 100V models) | 80Hz (12dB/oct), 400Hz (6dB oct), OFF |
| Distortion (8 Ohm load) | (SMPTE) <0.5% typical (THD-N) <0.5% typical (20Hz-20kHz) |
| Damping Factor (8 Ohms, 1kHz) | >250 |
| Output Circuitry | Class D |
| Amplifier/Load Protection | Output Overcurrent, Main Supply Rail Overvoltage, Chassis Tempera- ture, Inrush Limiting, Mains Fuse |
| Environmental | 40-120° F, (4-49° C) noncondensing |

| Rear Panel | |
|---------------------------|--|
| Controls | Ethernet 10/100, Channel bridge switch (Low-Z only), Remote standby, Preset recall (4), Remote Level (8), Remote Data |
| Connectors (each channel) | Input: Euroblock Output: Euroblock |

| Power Requirements | | |
|-----------------------|-----------------------------------|--|
| AC Main | 120VAC or 240VAC, ±10% 50–60Hz | |
| Power Cable Connector | 15A Edison, 3-Prong IEC | |

| Weights and Dimensions | | |
|------------------------|---|--|
| Dimensions | 19" W x 3.50" H x 15.5" D (483mm x 88.9mm x 394mm) | |
| Unit Weight | 4250: 18lbs (8.18kg) 8250: 19.7lbs (8.95kg) | |
| Shipping Weight | 4250: 25lbs (11kg) | |





NE4250 NE8250

Protea

DIGITAL SIGNAL PROCESSING FOR NE MULTI-CHANNEL

Protea is compatible with Microsoft® Windows 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.

| Protēa™ DSP Specifications | | |
|---|--|--|
| All DSP functions can be linked to 1 of 16 link groups | | |
| Input Source Selection | | |
| Input Source Select Options | Analog, Auto (Net, AES3, Analog) | |
| 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 | 0.2 to 50ms | |
| Release | 5ms/dB to 1000ms/dB | |
| Detector | Peak/Average | |
| Attenuation Bus | 2 available | |
| Metering | In, Out, Attenuation, Graphical | |
| 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 | |
| Ducking: High/Low Priority, Trigger, Filibuster, Ducked Program | | |
| Trigger Threshold | -80dBu to +20 dBu | |
| 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 50 ms/dB | |
| Release | 5ms/dB to 1000ms/dB | |
| Metering | Key Signal, Gate LED, Graphical | |
| Advanced Gate Controls | Rey Signal, Gate LLD, Graphilical | |
| Key Engage Enable | Yes | |
| , , , , | 20Hz to 20kHz | |
| Key Frequency Key Bandwidth | 0.016 to 3.995 Octave | |
| Gain | 0.010 to 3.553 Octave | |
| | FORD to 112dD off polarity invest | |
| Gain (with/without VCA) | -50dB to +12dB, off, polarity invert 4 available | |
| Digital VCA Groups Remote RD8C Gain | Enable per channel, 0dB to -∞ | |
| | | |
| WR-5 (neWR-5) Remote Gain | 0 to -50dB, Mute | |
| EQ: 31-Band | Constant O or associated | |
| Filter Type | Constant Q or proportional | |
| Bandwidth | 0.499oct to 0.25oct | |
| EQ: Parametric 2,4,6, or 10 Band | 20.2011 | |
| Frequency | 20-20kHz | |
| Level | -30dB to +15dB | |
| Q Value | 0.016 to 3.995 Octave | |
| EQ: Hi/Low Shelf 6/12 dB/oct | Lague ague | |
| Frequency | 20Hz-20kHz | |
| Level | -15dB to +15dB | |
| EQ: All Pass | T | |
| Frequency | 20Hz-20kHz | |
| EQ: Variable Q HP/LP | T | |
| Frequency | 20Hz-20kHz | |
| Q Value | 3.047 to 0.267 | |
| EQ: Notch/Bandpass | T | |
| Frequency | 20Hz-20kHz | |
| Q Value | 92.436 to 0.267 | |
| 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 | |
| Enable Ducking at Mixer | Yes | |
| 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 | |
| Processors Input A/D, Output D/A DSP Processors Sample Rates Propagation Delay @ 48kHz: | 24 bit 32-bit floating point 48kHz, 96kHz 1.42ms | |



ARCHITECT & ENGINEERING SPECS

ne4250

The four-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 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 + 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 19.7pounds (9kg) or less.

The power amplifier shall be an Ashly model **ne4250**The power amplifier with a factory installed AES option shall be an Ashly model **ne4250d**The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne4250c**

ne4250 with DSP Option

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The power amplifier shall be an Ashly model **ne4250pe**The power amplifier with a factory installed AES option shall be an Ashly model **ne4250ped**The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne4250pec**

ne4250.70

The four-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 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 + 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 19.7 pounds (9kg) or less.

The power amplifier shall be an Ashly model **ne4250.70**The power amplifier with a factory installed AES option shall be an Ashly model **ne4250.70d**The power amplifier with a factory installed CobraNet option shall be an Ashly model **ne4250.70c**

ne4250.70 with DSP Option

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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 + 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.

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ne8250 with DSP Option

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ne8250.70

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ne8250.70 with DSP Option

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