

Ashly ne8800mm Network-Enabled Digital Signal Processor with 8-Channel Mic Inputs/Protea Software Suite

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| Frequency Response | 20 Hz to 20 kHz, +/-0.1 dB, A>D +/-0.25 dB, D>A +/-0.25 dB, A>A |
| Dynamic Range | 20 Hz to 20 kHz (unweighted) >115 dB, A>D >114 dB, D>A >114 dB, A>A |
| THD + N | 1 kHz, +20 dBu analog (-1.0 dBFS digital) <0.001%, A>D <0.002%, D>A <0.002%, A>A <0.00001%, D>D |
| Latency | @48 kHz 1.42 ms, A>D 0.90 ms, D>A 2.21 ms, A>A 0.10 ms, D>D @96 kHz 0.71 ms, A>D 0.45 ms, D>A 1.11 ms, A>A 0.05 ms, D>D |
| Wordclock | Input/Output Type: 75 Ohms BNC Lock Range: 48 kHz +/- 4%, 96 kHz +/- 4% Input Impedance: Selectable 75 Ohms or high impedance Input Voltage Range: 1.0 to 7.0 Vpp Output Impedance: 75 Ohms Output Level: 5.0 Vpp nominal, unterminated |
| Master Clock | Sources Audio network Wordclock AES3 Internal crystal clock Modes Prioritized auto switching Manual |
| Inputs | Analog Line/Microphone Input Type: Active balanced Euroblock Input Impedance: 20 kOhms Maximum Input Level: +20 dB |
| Outputs | Analog Servo-Balanced Euroblock Output Impedance: 20 Ohms Maximum Output Level: +20 dBu AES3 Transformer Balanced Male XLR Output Impedance: 110 Ohms Maximum Output Level: 5.0 Vpp |
| Other Connectors | 10/100 Ethernet port RS-232 port Euroblock inputs/outputs Four option bays Word Clock in/out Remote level control Logic I/O Data in/out ports On/Off switch |
| Environmental | 40 to 120°F (4 to 49°C) non-condensing |
| Power Requirements | 90 to 240 VAC, 50/60 Hz 70 W maximum |

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| | Cable Connector: 15A Edison 3- Prong IEC |
| System Requirements | Computer running under Windows 8, 7, Vista, XP (32- and 64-bit systems) |
| Compliance | cTUVus, CE, FCC, RoHS |
| Dimensions (WxDxH) | 19 x 8.5 x 3.5" (483 x 216 x 89 mm) |
| Weight | 10.5 lb (4.77 kg) |
| DSP | |
| Input Source | Input Source Select Options: Analog, Auto (Net, AES3, Analog) |
| Limiter | Brick Wall Limiter Threshold: -20 to +20 dBu Ratio: Infinite Attack: 0.2 to 50 ms/dB Release: 5 to 1000ms/dB |
| Compressor | Threshold: -20 to +20 dBu Ratio: 1.2:1 to infinite Attack: 0.2 to 50 ms Release: 5 to 1000 ms/dB Detector: Peak/average Attenuation Bus: 4 available Metering: In, Out, Attenuation, Graphical |
| Controls | Target Level: -40 to +20 dBu Action: Gentle, normal, aggressive, user- defined Maximum Gain: 0 to +22 dB Metering: Input Level, Gain, Attenuation Ratio: 1.2:1 to 10:1 Threshold Below Target: -30 to 0 dB Gain Increase/Decrease Rate: 5 to 1000 ms/dB Hold Time: 0 to 6 sec |
| Ambient Noise Compensation | Maximum Gain: -20 to +20 dB Minimum/Base Gain: -40 to -1 dB Gain Change Rate: 0.2 to 20 s/dB Link Group: 8 available>ANC Input Channel: 1-2 or 1-4 Noise Threshold: -40 to +20 dBu Program/Ambient Gain Ratio: 0.3:1 to 3:1 Metering: Input level, Attenuation, Average noise |
| Ducking | High/Low Priority, Trigger, Filibuster, Ducking Program Trigger Threshold: - 80 to +20 dBu Ducking Release: 5 to 1000 ms/dB Ducking Depth: 0 to -30 dB, -∞ Enable Ducking at Matrix Mixer: Yes Metering: Input |
| Gate | Threshold: -80 to +20 dBu Range: off, 100 to 0 dB Attack: 0.2 to 50 ms/ dB Release: 5 to 1000 ms/dB Metering: Key Signal, Gate LED, Graphical Advanced Gate Controls Key Engage Enable: Yes Key Frequency: 20 Hz to 20 kHz Key Bandwidth: 0.016 to 3.995 octave |
| Gain | Gain (with/without VCA): -50 to +12 dB, off, polarity invert Digital VCA Groups: 4 available Remote RD8C Gain: Enable per channel, 0 dB to -∞ WR-5 (neWR-5) Remote Gain: 0 to -50 dB, mute |
| | 31-Band Filter Type: Constant Q or proportional Q Bandwidth: 0.499 to 0.25 oct Parametric 2,4,6, or 10 Band Frequency: 20 to 20 kHz Level: - 30 to +15 dB Q Value: 0.016 to 3.995 Octave Hi/Low Shelf 6/12 dB/oct Frequency: 20 Hz to 20 kHz |

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| EQ Controls | <p>Level: -15 to +15 dB</p> <p>All Pass</p> <p>Frequency: 20 Hz to 20 kHz</p> <p>Variable Q HP/LP</p> <p>Frequency: 20 Hz to 20 kHz</p> <p>Q Value: 3.047 to 0.267</p> <p>Notch/Bandpass</p> <p>Frequency: 20 Hz to 20 kHz</p> <p>Bandwidth Range: 0.016 to 3.995 oct.</p> |
| Feedback | <p>Feedback Suppressor: Only available w/ 48 kHz sampling rate (inputs only)</p> <p>Filters: 12</p> <p>In/Out per filter: Yes</p> <p>Filter Modes: Float, Restricted, Manual, Lock</p> <p>Filter Type: Notch, Parametric</p> <p>Filter Frequency Range: 20 Hz to 20 kHz</p> <p>Parametric Filter Level: +15 to -30 dB</p> <p>Filter Bandwidth: 0.016 to 3.995 Octave</p> <p>Detector Sensitivity: 5 levels</p> <p>Float Time: 5 seconds to 24 hours</p> |
| Crossover | <p>2 Way, 3 Way, 4 Way Crossover & High-Pass/Low-Pass Filters</p> <p>Bessel & Butterworth Filters: 12/18/24/48 dB/oct</p> <p>Linkwitz-Riley Filter: 12/24/48 dB/ oct</p> <p>Notched Linkwitz-Riley: 4th Order, 8th Order</p> <p>Frequency: Off, 20 Hz to 20 kHz</p> |
| Delay | <p>@ 48 kHz Sampling Rate (Input Time, Distance & Temperature)</p> <p>Speaker Delay: 0 to 58.65 ms</p> <p>Delay: 0 to 1.365.31 ms</p> <p>@ 96 kHz Sampling Rate (Input Time, Distance & Temperature)</p> <p>Speaker Delay: 0 to 29.32 ms</p> <p>Delay: 0 to 682.65 ms</p> |
| Audio Metering | <p>Range: -60 to +20 dBu</p> <p>Increments: 1 dB</p> <p>Peak Hold Indicator: Yes</p> |
| Signal Generator | <p>Pink noise, White noise, Sine wave</p> <p>Signal Level: Off, -50 to +20 dBu</p> <p>Sine Wave Frequency: 20 Hz to 12 kHz</p> |
| Mixer | <p>Gain (0.5 dB increments): Off, -50 to +12 dB</p> <p>Mute: Input</p> <p>Auto-Mixer: Automix assign per input</p> <p>Global Auto-mixer Response: 0.01 to 2 sec</p> <p>Enable Ducking at Mixer: Yes</p> <p>Ducking LED: Per channel if enabled</p> <p>Metering: Level, auto-mixer level</p> |
| Processors | <p>Input A/D, Output D/A: 24 bit</p> <p>DSP Processors: 32-bit floating point</p> <p>Sample Rates: 48 and 96 kHz</p> |