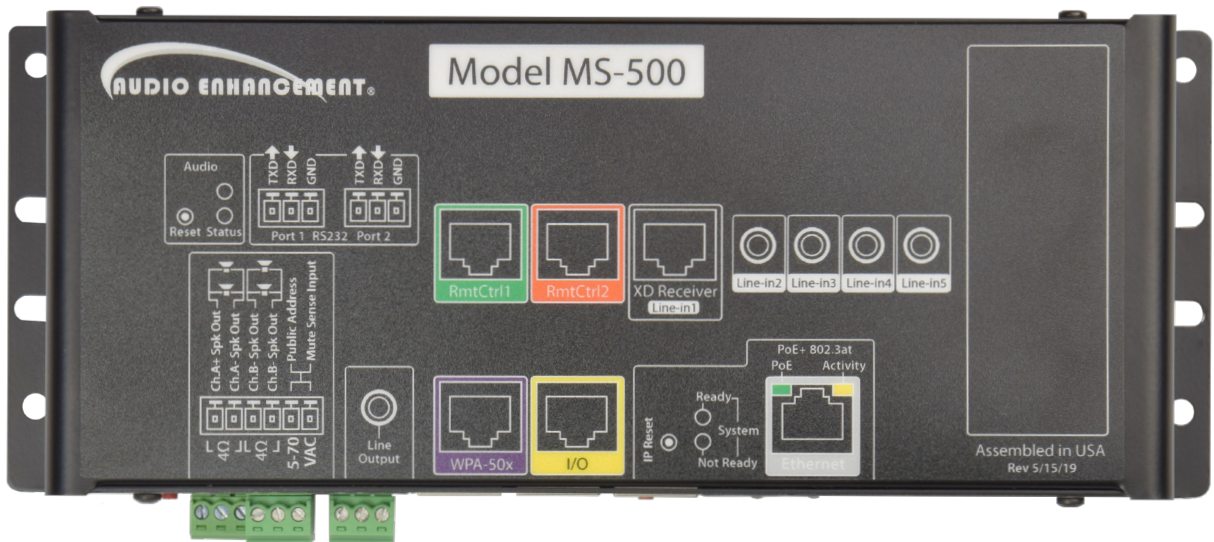
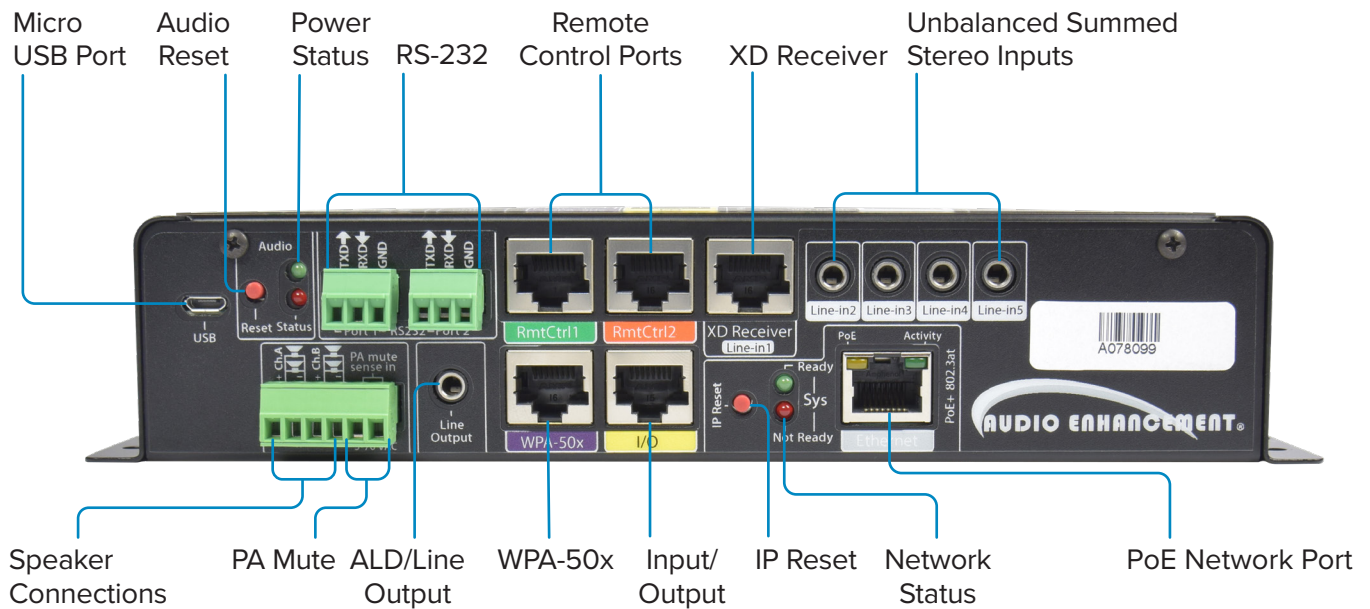


MS-500 OPTIMUM AMPLIFIER

SPEC SHEET



The **MS-500 Optimum Amplifier** is a classroom amplifier with network-based intercom, paging and emergency notifications, providing full-duplex audio. It is easy-to-use, easy-to-install, and has a simple user interface software. The entire unit is Powered over Ethernet (PoE) ensuring that during emergencies, paging can still be heard, even when the power goes out. Intercom and paging functionalities are built-in.



SPECIFICATIONS

| MS-500 OPTIMUM AMPLIFIER | |
|---------------------------------------|--|
| Line Inputs | For PC, DVD audio, MP3, auxiliary mic, or other multimedia sources <ul style="list-style-type: none"> • (4) Line unbalanced stereo inputs (3.5 mm) • (1) Input connector for XD Receiver • Internal Network Audio |
| Line Outputs | (1) Unbalanced (3.5 mm) output (2) Unbalanced line outputs (RJ45 connectors) |
| Equalizer | 5-Band Equalizer |
| Mini USB | Control and configuration via software |
| Minimum Load Impedance | 4 Ohms on each pair of terminals (2 Ohm load overall is nominal) |
| Amplifier Type | 92% Efficient Class D |
| Continuous Power @ 1% THD | 30 W powered by PoE ¹ |
| S/N | >89 dB @ 20 Hz to 20 kHz at maximum output |
| Protection Circuits | Thermal and short circuit protected |
| PA Connector | Connects to public address system and mutes amplifier during announcements Input Voltage: 4V RMS to 74V RMS |
| Control Port | RS-232, 3-pin screw terminal block header, RJ45 remote control port <ul style="list-style-type: none"> • (2) RS-232 communication ports: (1) for XD Receiver, and (1) to control another classroom device such as a projector • (2) Remote Control Ports: for integration with LCD wall plate controls • XD Receiver, power out and audio input • Intercom call, emergency alert, room microphone wall plate port (WPA-50x) • Input/output (I/O) aux port for sense, strobe, etc. |
| Power Supply | PoE+ 802.3af/at ¹ |
| Temperature/Humidity | Storage: -40 - 158°F (-40 ~ +70°C) / 10 - 90% non-condensing Operating: -32 - 122°F (0 ~ +50°C) / 10 - 90% |
| Enclosure Type | Metal |
| Ethernet I/F | 10/100 Mbps |
| Power Input (Network) | PoE 802.3af/at ¹ |
| Operating Temperature | 14° - 122°F (-10° ~ 50°C) |
| Protocols | SIP RFC 3261 compatible UDP Directed Broadcast Multi-cast and VoIP enabled |
| Line Out: Output Signal Amplitudes | 2.0 VPP maximum |
| Output Level | +2 dBm nominal |
| Total Harmonic Distortion | 0.50% maximum |
| Weight | 1.30 lbs (20.79 oz) |
| Dimensions | 1.81 (H) x 9.19 (W) x 3.56 (D) in (45.97 x 233.43 x 90.42 mm) |