

## Ashly pema 4125.10 4 x 125W/100V Pema Network Power Amplifier/Constant Voltage with 8x8 Protea DSP

**This listing is for pema 4125.10 Amplifier only. Use description below as a general reference.**

**PEMA™** sets a new industry benchmark for value-engineered zone sound systems. By seamlessly merging our powerful, open-architecture DSP functionality paired amplifier performance inside a two-rack space unit, PEMA lowers overall system cost, occupies less space, improves energy efficiency, and both speeds and simplifies system installation and programming. Four and eight amplifier channel versions are available at both 125 and 250 Watts per channel. Full 96kHz performance is available on 32-bit SHARC processors for utterly transparent audio.

PEMA changes the way consultants and integrators approach sound system design. With only the addition of input sources and output speakers, PEMA delivers an elegant solution with less cabling, less rack space, and less installation time, using proven DSP and amplifier technology that will awe clients with its simplicity, sophistication, and reliability.

In addition to DSP algorithms such as FIR filter capability, ambient noise compensation, advanced automatic feedback suppression, automatic mixer, and a full complement of filters, EQs, delays, and the like, PEMA offers DSP control of the amplifier functionality as well: selection of bridge-mode operation, HPF settings for constant voltage system networks, stereo-linking of channel pairs, MIC/LINE/TEL-PAGE functions on channel 1, full control of ducking priorities, and full-range remote-gain control capability.

PEMA's I/O count and formats are ideal for small to mid-sized installations. Each variant has eight balanced input channels that are software selectable for mic or line levels. The first channel may also be set for a transformer isolated, TEL-PBX level. Additionally there are eight pairs of summed-mono RCA connectors optimized for consumer line level devices. Eight preamp auxiliary outputs allow integrators to route signals from the matrix mixer to anywhere the system requires.

As a member of the respected Protea™ DSP lineage, PEMA is remarkably easy to program and deploy. All set up is accomplished using standard 10/100 Ethernet protocol and our Protea™ ne Software on a PC platform. Hot-plug DSP placement allows users to insert any function into any channel block, even when running live audio. Automatic DHCP network IP configuration reduces network set up time. Lockable front panel controls and multi-level software security with password access guarantee a tamper-proof audio system.

### Features:

- CobraNet® and Dante® network audio fully supported
- FIR Filter capable
- 8-in x 8-out sophisticated matrix mixing
- 8 built-in mic pre's
- Gain sharing automatic microphone mixing (Automixer)
- Automatic feedback suppression
- Ambient noise compensation
- Dedicated telephone/PBX input
- Dual RCA and balanced euroblock inputs
- Post DSP AUX line level outputs
- Stereo summed to mono
- Event scheduling (RTC)
- Adjustable HP/LP filters
- Built-in pink/white noise & sine wave generator
- Full suite of Ashly Protea™ DSP
- Hot-plug DSP placement
- 96kHz or 48kHz sample rate
- 32-Bit SHARC DSP
- 24-Bit A/D-D/A audio resolution
- 15V phantom power for mic inputs
- Full control using Ashly software over 10/100 baseT Ethernet
- Easy and intuitive user interface
- Automatic DHCP network IP configuration
- Euroblock connectors for preset recall, DC remote level control and serial data control
- External control via Ashly standard wall remotes, Ashly Ethernet wall remotes or Ashly Remote iPad® App
- Level control via variable DC control voltage
- Stand-By mode activation via contact closure
- Multi-level Security
- Safety/Compliance: cTUVus, CE, FCC, RoHS