PROCESSING **POWER**

The **APA Series** from XTA

Dante™

www.xta.co.uk

xta

APA-4E8 Adaptive Processing Amplifier

Processing Power. Like never before.

APA delivers a level of performance that ensures your audio connects with your audience. Adaptive processing reacts to prevailing conditions and keeps your system sounding as good as possible for as long as possible.

You have full control over a powerful suite of filtering and protection, including multiple bands of XTA legendary dynamic EQ, FIR filtering and phase linearisation, soft knee compression, ultra-transparent program and peak limiting, and all the classic crossover and EQ components traditionally used to set up your system.

Two full mix matrices allow you to source audio either locally from AES, analogue inputs, or via a networked audio connection[*] and, independently, to break-in audio and route directly (or through DSP resources) onto the network[*].

Power delivery into all loads is sustained for longer and at higher levels thanks to our massive power supply and low-loss output stages, meaning reduced heat production and higher efficiency. Real world power output - all night long performance, not just all note long!

Search "XTA APA" to find out more...

[*]network audio inputs are factory option

Dante
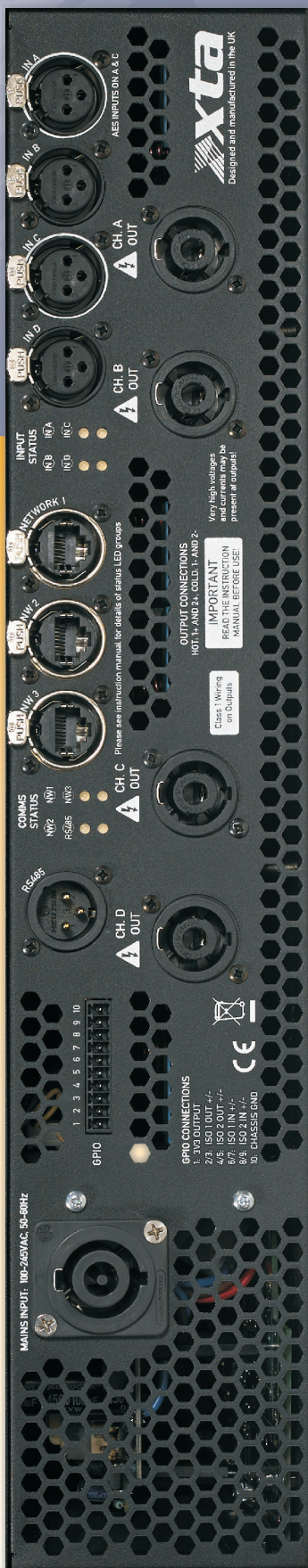
Features and Specifications

Features

Four channels of amplification, processing and real time monitoring at 96k.

Continuous monitoring of mains supply voltage and current, with user adjustment of maximum current draw.

Full suite of XTA processing including dynamic EQ and FIR filtering. User memory recall via front panel permits single channel, routing "overlays", or complete unit configurations.

Source matrix and mix selection allows unassigned internal DSP resources to process external signals.

Full colour LCD with user selectable metrics for reassuring monitoring of performance.

Multi-functional metering display with tri-colour modes for I/O signal monitors, gain reduction, and power output.

PFC regulated switching supply design with "quick wake-up" and "ultra low power" modes (<1.0W).

Class D amplifier design with 80% system efficiency ensuring greater power delivery from mains inlet to speaker outlets.

Flash memory for playback of emergency evac messages and data logging of all major events.

Programmable wake-up event management: Signal present, remote command, GPI input signal.

Configurable isolated GPIO ports.

New remote multi-user software, mac and PC compatible with integrated Ethernet support.

Technical Specifications

Inputs:
Dante Network Audio x 4, AES3 x 2 (four chs.), Analogue x 4. Full Mix matrix for power amp processing and network outputs.

Outputs:
Dante Network Audio x 4 - full mix matrix independent of power amp processing.
Power amplifier outputs:
Total available output power: 20000W
Peak useable output voltage/ch.: 180V
Peal useable output current/ch.: 72A

Maximum continuous power/ch.:
20000W: 4 x 5000W (2 ohms)
20000W: 4 x 5000W (2.7 ohms)
13200W: 4 x 3300W (4 ohms)
6800W: 4 x 1700W (8 ohms)
Maximum continuous power/bridged pair:
14800W: 2 x 7400W (4 ohms)
13200W: 2 x 6600W (8 ohms)
6800W: 2 x 3400W (16 ohms)

THD: better than 0.05% (2kW, 1k)
Freq. resp.: 3Hz-30kHz -3dB

Processing:
ADC and DAC resolution: 24bit
Internal sample rate: 96kHz
Processing precision: 32bit (floating point)
Delay; Polarity; IIR EQ (PEQ, shelving, variQ, all pass, phase, notch, band pass);
Crossover up to 48dB/Oct.; FIR filtering;
Dynamic EQ; Compressor; Program & Peak Limiter

System:
Power: 90-260VAC, 32A maximum (PFC)
Suggested circuit breaker: C32
(with user adjustable current limit)
Mains connector: 32A "PowerCon"
Dims: 88 x 482 x 498mm (HxWxD)
Weight: 15.0kg
Nominal system gain: 32dB

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