

## PAGING Series (PAG)

Multi-Channel Amplifiers



The Media Technology Systems Paging (PAG)-series amplifiers are specifically designed for applications requiring large numbers of constant voltage (70 or 100volt) amplifier channels. Such applications include transportation sector (airports, rail networks, subway systems) retail malls, hospitality, theme parks, buildings, etc.

### KEY FEATURES

- 2, 4, 6 & 8 channel options
- Four power levels:
  - 75watts
  - 150watts
  - 300watts
  - 600watts (2, 4 CH only)
- Amplifier output is selectable between 70volts or 100volts
- Protection against short circuit, overcurrent, DC and over temperature
- Selectable 110Hz High pass filter, 12dB/Oct
- Optional Control & monitoring of all amplifier parameters
- Optional Serial interface (RS485 multi-drop)
- "World Power" Full specification is delivered when operated on any voltage internationally and or "brown-out" low voltage conditions. A/C power supply from 86-265 Volts – 43-63Hz.
- Automatic output changeover in case of channel failure.



### Further Enquiries

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The PAG series amplifiers employ a Class D output topology for maximum efficiency and does not require high volume, forced fan cooling even with the amplifier running into clip on all channels. In addition, the switch mode power supply (SMPS) incorporates power factor correction (PFC) to comply with incoming legislation and minimize noise pollution of the electrical supply.

The PAG series amplifiers provide changeover relays on the output of each channel, where the N/O connection of the relay is available at the rear port of the amplifier. This enables any of the internal amplifier channels to act as a backup in case of primary amplifier channel failure. Alternatively, an external Media Technology Systems amplifier/channel can be used to backup the primary amplifier channel via the same port.

The MTS-SMPS technology provides full rated power even when A/C power levels droop. Conventional linear power supplies lose 20% of their output power for each 10% reduction in supply voltage. In contrast, MTS amplifiers provide full rated power and headroom under all reasonable power conditions. Further, the use of SMPS assures continued operation on low A/C power when many products shut down as voltages go out of regulated range.

The PAG series amplifiers provide a switch selectable analog 110Hz high pass filter for protection of loudspeakers and transformers.

The PAG series amplifiers is available with an optional multi-drop serial port for control and monitoring of all amplifier parameters, including signal, temperature, fault and load monitoring.

The PAG series amplifier output stage is selectable between 70volts RMS (true 100volts peak) and 100volts RMS (true 141volts peak).



**APPLICATIONS**

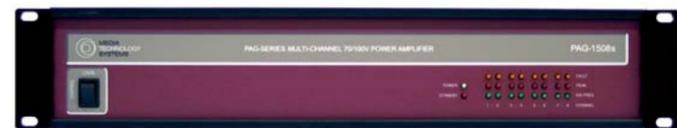
- Airports
- Rail networks
- Subway systems
- Buildings
- Shopping Malls
- Theme Parks



picture of front panels (PAG-3008S)



picture of rear panels (PAG-758S)



picture of front panels (PAG-3008S)



picture of rear panels (PAG-758S)

**SPECIFICATIONS**

**Performance**

Power output per channel (20Hz-20kHz)

PAG754	4 channel	75watts	70 or 100 volt
PAG756	6 channel	75watts	70 or 100 volt
PAG758	8 channel	75watts	70 or 100 volt
PAG1502	2 channel	150watts	70 or 100 volt
PAG1504	4 channel	150watts	70 or 100 volt
PAG1506	6 channel	150watts	70 or 100 volt
PAG1508	8 channel	150watts	70 or 100 volt
PAG3002	2 channel	300watts	70 or 100 volt
PAG3004	4 channel	300watts	70 or 100 volt
PAG3006	6 channel	300watts	70 or 100 volt
PAG3008	8 channel	300watts	70 or 100 volt
PAG6002	2 channel	600watts	70 or 100 volt
PAG6004	4 channel	600watts	70 or 100 volt

**OPTIONAL CONFIGURATIONS**

**Serial (-S) versions** (eg PAG754S): In the S-Versions of the Media Technology Systems Paging series amplifiers, each amplifier channel includes an analog VCA (for remote level/mute control) and a microcontroller with 12 A-D converters (10bit accuracy). The microcontroller enables remote monitoring of pre/post attenuator input signals, output current and voltage signals to the loudspeaker, output clip, rear panel HPF and bridge settings, heat-sink temperature, short circuit, channel overcurrent and DC conditions. The microcontroller allows remote relay

muting/disabling of the amplifier channels.

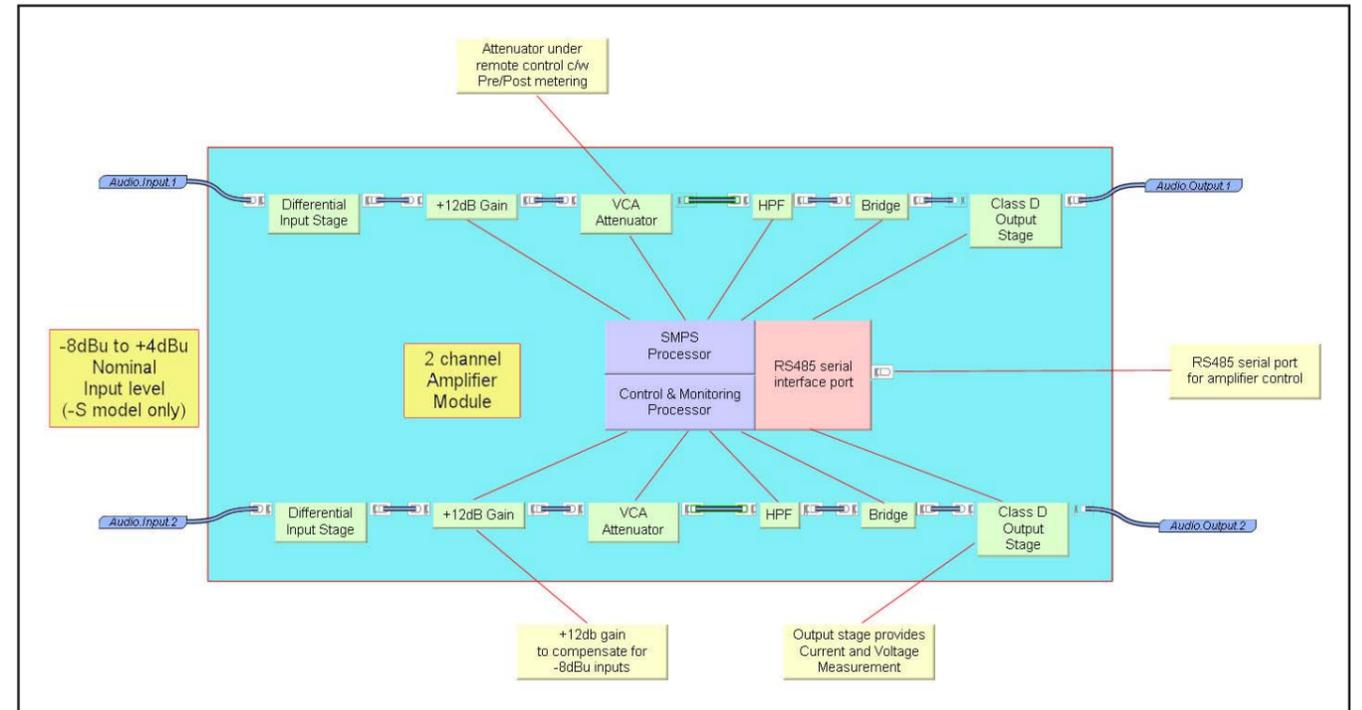
The VCA on each of the analog audio channels has a 12db gain stage, so consumer line level signals (eg, DVD, VCR, CD, etc) can be accommodated.

The -S configuration provides multidrop serial (RS485) for control and monitoring, where up to 32 amplifiers (up to 64 channels) can be connected to one host computer port or third party AV control system.

As the amplifier provides measurement of

output voltage and current, a host computer can monitor line impedance and thus short or open circuit.

The amplifier has a separate microprocessor controlling the switch mode power supply. This enables remote monitoring of the front panel local/remote switch, amplifier model, power supply rails, power supply temperature, over current and over voltage conditions. The SMPS microprocessor will also provide remote standby/power on control of the amplifier module(s) high voltage supply.



**Frequency response** 20Hz-20kHz (+/-0.5dB), any channel driven. THD, less than 0.3%

**Sensitivity**

1.22volts RMS (+4dBu) develops full output at minimum attenuation setting (Standard amplifier) and 0.308volts RMS (-8dBu) develops full output at minimum VCA attenuation setting (-S serial models only)

**Noise** Less than 100dB

**Input clipping** +24dBu

**Output** Class D

**Power Supply**

Switch Mode Power Supply -SMPS with Power Factor Protector-PFC. Auto ranging between 86-265 Volts, 43-63Hz. Appropriate fuses for power ranges 100-120volts and 220-240volts must be selected

**Input impedance** 10k balanced

**Connectors**

Inputs & RS485 ports (-S models only)-Euroblock 3 pin 3.5mm, Outputs-Euroblock 4pin 5.08mm, Network Neutrik EtherCon

**Cooling**

Air-Exchange: The MTS Class D technology does not require high volume forced fan cooling or external heatsinks. Instead, a small, low volume internal air-exchange fan is employed

**Physical**

2U High (87.9mm), 19" wide (483mm), 18" deep (470mm)

**MODEL SUMMARY**

**PAG75x** Standard 75watt amplifier  
**PAG75xS** V75x with Serial port and control/monitoring capability

Where x = 4, 6, or 8 channels (6 models)

**PAG150x** Standard 150watt amplifier  
**PAG150xS** V150x with Serial port and control/monitoring capability

**PAG300x** Standard 300watt amplifier  
**PAG300xS** V300x with Serial port and control/monitoring capability

Where x = 2, 4, 6, or 8 channels (16 models)

**PAG600x** Standard 600watt amplifier  
**PAG600xS** V600x with Serial port and control/monitoring capability

Where x = 2 or 4 channels (4 models)