# RAIPEC
## AUDIO POWER
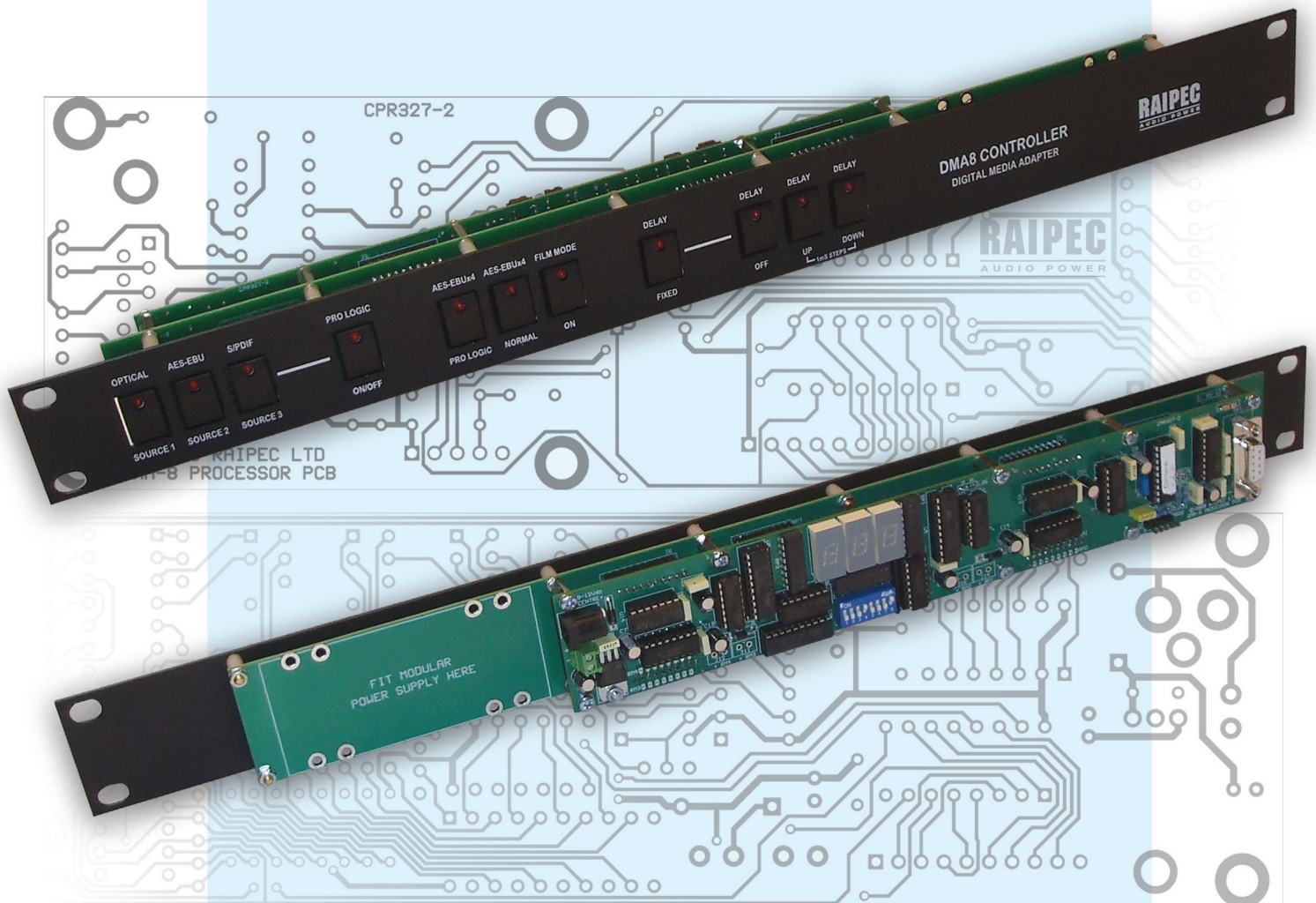
# Dolby® DMA8 Controller

The DMA8 Controller provides push button control for selection of audio formats available on the Dolby DMA8. In addition, the 'Global' delay may be adjusted according to source. The DMA8 Controller extends the functionality beyond that of the two push buttons available on the Dolby DMA8.

The Dolby DMA8 must first be configured according to the set-up procedure before the DMA8 Controller can be used.



- **Digital Input selection Switches**
- **Analogue Input selection Switch**
- **Pro-Logic Switches**
- **Delay Switches**
- **Power-on-Delay**
- **Automation**

# RAIPEC  Dolby® DMA8 Controller

## Digital Input selection Switches
### [Connectors on rear of Dolby DMA8]

Source 1     S/PDIF Optical. Fibre optic two-channel via Toslink.

Source 2     AES/EBU. AES-3ID-1995/SMPTE 276M unbalanced via 75R BNC connector.

Source 3     S/PDIF. Coaxial two-channel (IEC61937) via 75R RCA connector.

For all three sources, the Dolby DMA8 switches to digital media mode, lights digital media LED and sets decoding mode to L/R discrete.

AES/EBU     4 x AES. AES/EBU 110R +/-20% balanced transformer isolated on DB25 connector.

For this input, all four PCM channels are assigned according to the original setup. Normally this will be AES ch.1/2 to L/R, AES ch.3/4 to C/SW, AES ch.5/6 to Ls/Rs and AES ch.7/8 to 7/8. The Dolby DMA8 switches to digital media mode and lights digital media LED.

## Analogue Input selection Switch
### [Connector on rear of Dolby DMA8]

Film Mode     Analogue signal input. Eight-channel audio on DB25 connector.

The Dolby DMA8 switches to film mode and lights film LED.

## Pro-Logic Switches

Source 1-3     Depending upon which source has been selected, the Dolby DMA8 will set PCM Pro-Logic decoding mode to Pro-Logic

AES/EBU     The Dolby DMA8 will set PCM Pro-Logic decoding mode to Pro-Logic on first 4 x AES input pair.

## Delay Switches

The Global delay may adjusted in 1ms intervals up to a maximum of 160ms.

Delay Fixed     According to the settings (in binary) on the rear DIP switches, the delay will be shown on the 7-segment display in milliseconds.

Delay Off     The delay is set to 0ms.

Delay Up     The current delay setting will be incremented up to 160ms.

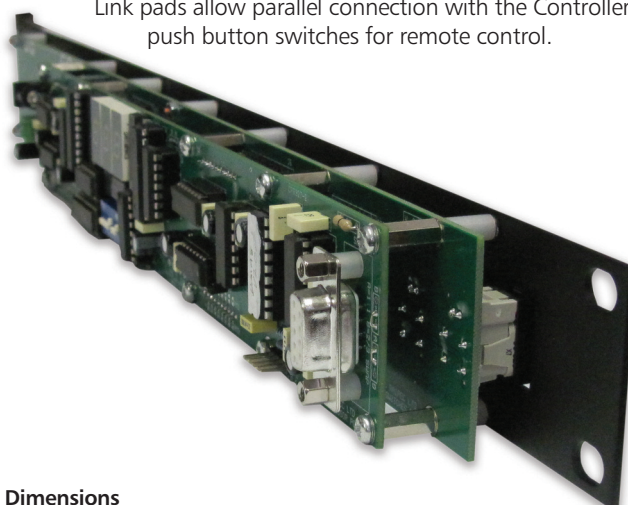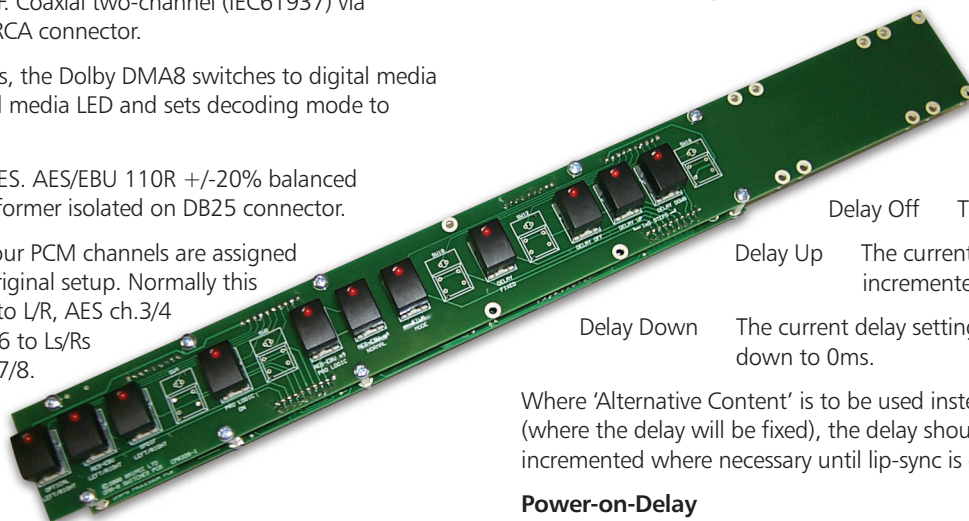Delay Down     The current delay setting will be decremented down to 0ms.

Where 'Alternative Content' is to be used instead of a 'Film Server' (where the delay will be fixed), the delay should be set to off and incremented where necessary until lip-sync is established.

## Power-on-Delay

The DMA8 features a 5 second self-test on power-up. To compensate for this delay, the controller waits 10 seconds before issuing the last stored settings.

## Automation

Link pads allow parallel connection with the Controller's push button switches for remote control.

## Control:

| | |
|---|---|
| Protocol | RS232, 9600bps, 8 data bits, no parity, 1 stop bit |
| Control Pins | Pin 2 data-out (pin 3 data-in on DMA8) |
| | Pins 1 and 9 not used. |
| | Pins 4-6, 7-8 connected on DMA8 |
| | Pin 5 chassis ground. |
| Connector | DB 9 Female, connected to rear RS232 control port |

## Power:

| | |
|---|---|
| Power Input | +9Vdc @ 300mA max |
| Power consumption | 2.7W |
| Power Connector | 2.5mm DC Socket, centre positive |

## Environmental

| | |
|---|---|
| Operating temperature | 0°C to 40°C (32°F to 104°F) |
| Relative Humidity | 10% - 80% relative humidity, non-condensing |

*Specification subject to change without prior notice.*

## Dimensions

| | |
|---|---|
| Dimension (WxHxD) | 1U 19" Rack Mount |
| | 483mm x 44mm x 35mm |

## Weight

| | |
|---|---|
| Weight (net) | 160g |

## Warranty

One year limited, parts and labour

Dolby is a registered trade name of Dolby Laboratories

Designed and manufactured in the UK

**RAIPEC** The Old School House, 44 Wicken Road
Newport, Safron Walden, Essex CB11 3QG
tel: +44 (0) 1799 542 120 • fax: +44 (0) 1799 542 260
email: info@raipec.co.uk • Web: www.raipec.co.uk