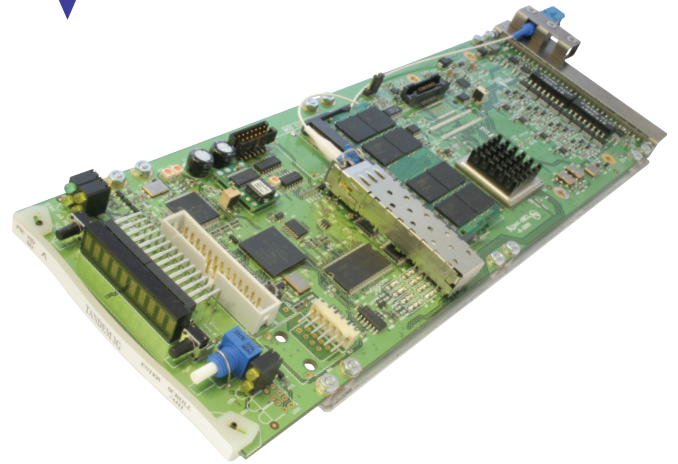


# Crystal Vision

## TANDEM 3G

### 3G/HD/SD audio embedder/de-embedder

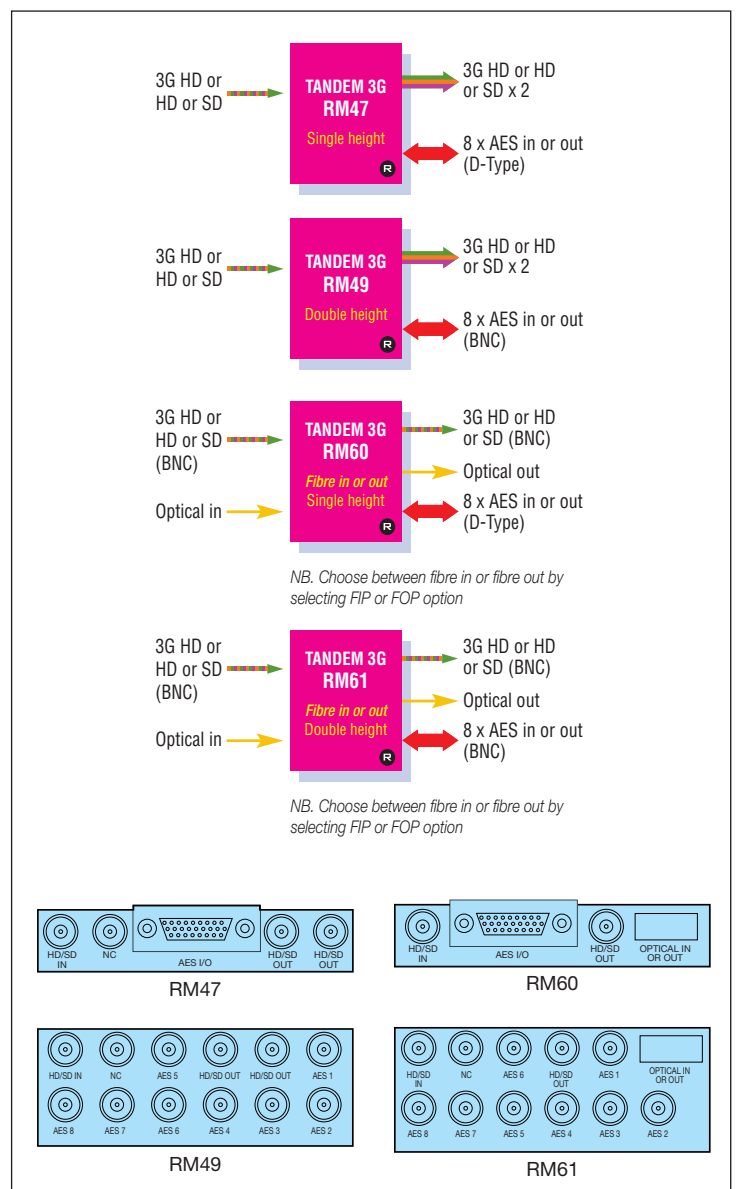


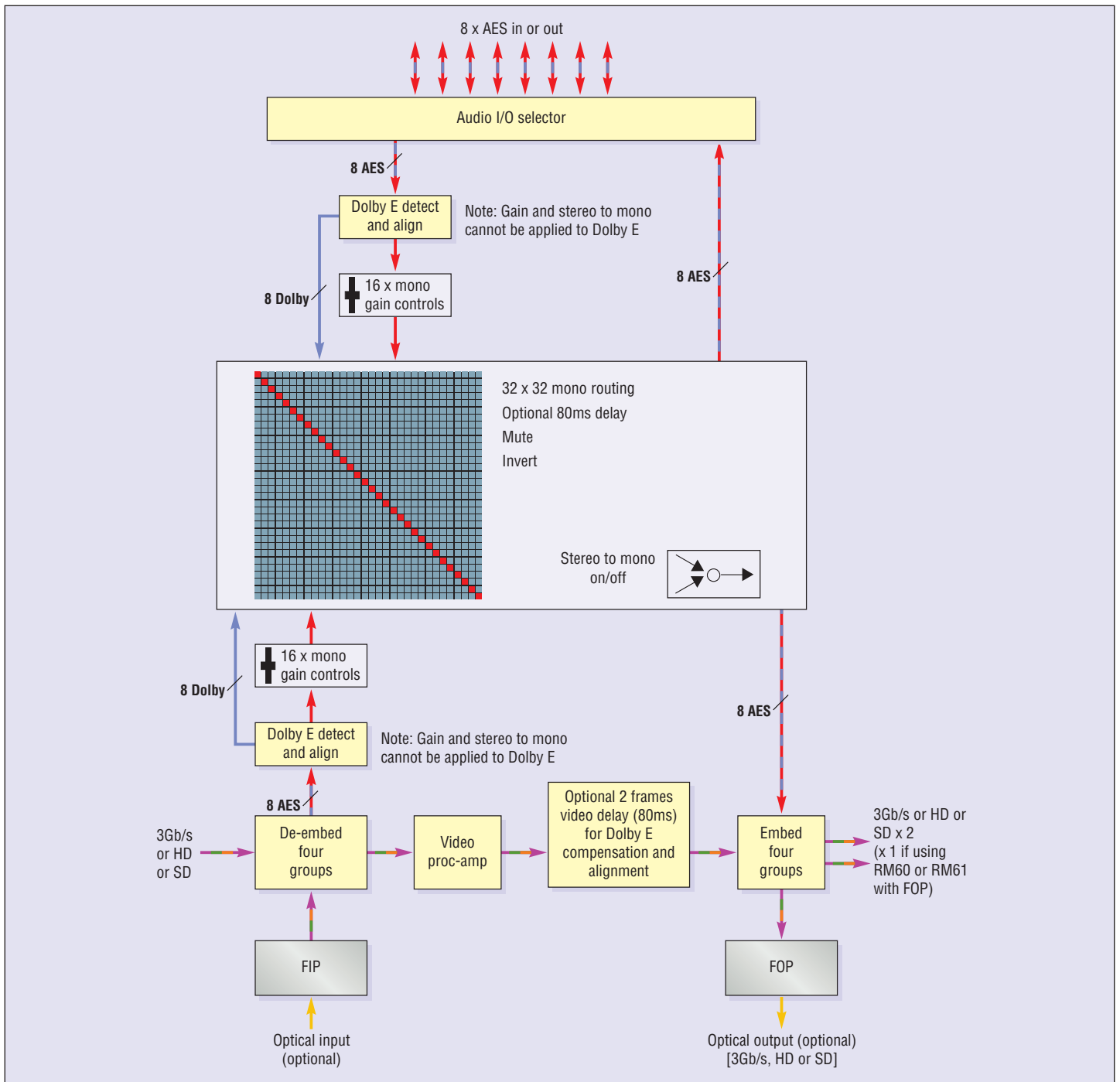
#### PREVIEW INFORMATION

The first single board providing a combined embedder and de-embedder for four groups of audio – making it an economic and flexible solution for a very wide range of applications.

#### MAIN FEATURES

- ▶ **Use it with any source:** works with 3Gb/s, HD and SD
- ▶ **Use as many audio groups as you need:** works with up to four groups
- ▶ **You won't be limited by cable lengths:** send your signals beyond your local equipment bay with the fibre input and output options – and still fit it all in a single frame slot
- ▶ **Complete freedom when embedding and de-embedding external audio:** bi-directional digital audio connections on the board can be configured in stereo pairs as AES inputs or AES outputs or any mixture of the two, allowing you to embed or de-embed up to eight AES at the same time and in any combination
- ▶ **Powerful audio routing:** full shuffling and overwriting of the mono channels between all four audio groups using 32 x 32 audio router
- ▶ **Easy to match all your signals:** compensate for any video processing with an optional audio delay of up to 80ms
- ▶ **Optimise the audio:** each channel has individual gain control and stereo to mono conversion
- ▶ **Optimise the video:** video proc-amp allows adjustment of video gain, black level and independent YUV gains
- ▶ **Ideal for Dolby E users:** allows embedding and de-embedding of Dolby E, Dolby E positioning and a switchable one or two frames video delay to match Dolby E delays
- ▶ **Suitable for use with either 110 ohm or 75 ohm digital audio:** use the RM47, RM49, RM60 and RM61 frame rear modules to access the inputs and outputs
- ▶ **Flexible control:** select from board edge, front and remote panels, SNMP, GPls and PC software
- ▶ **Saves rack space:** the 100mm x 266mm module fits in Crystal Vision's standard frames and allows 12 TANDEM 3G in 2U (24 in 4U, six in 1U and two in desk top box)
- ▶ **Saves money:** ideal for applications requiring both embedding and de-embedding at the same time, or for those who want to buy just one device to embed or de-embed as required
- ▶ **Versatile functionality:** simply embed or de-embed, or use it for multi-language applications, sports programming featuring both commentary and 'ground' effects, or to get surround sound without using Dolby E





## ORDERING INFORMATION

TANDEM 3G	3G/HD/SD audio embedder/de-embedder for up to four groups of audio
Indigo frames	Available in 4U, 2U, 1U and desk top box sizes and with different levels of control
RM47	Single slot frame rear module. Allows maximum number of boards in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Suitable for 110 ohm digital audio. Gives access to one 3Gb/s, HD or SD input, two 3Gb/s, HD or SD outputs and eight AES inputs or outputs
RM49	Two slot frame rear module. Allows 12 boards in 4U, six in 2U, three in 1U and one in desk top box. Suitable for 75 ohm digital audio. Gives access to one 3Gb/s, HD or SD input, two 3Gb/s, HD or SD outputs and eight AES inputs or outputs
RM60	Single slot frame rear module. Allows maximum number of boards in frame (24 in 4U, 12 in 2U, six in 1U, two in desk top box). Designed for applications using fibre inputs or outputs. Suitable for 110 ohm digital audio. When using fibre input, allows you to select between one fibre and one electrical 3Gb/s, HD or SD input, and gives out one 3Gb/s, HD or SD output and eight AES inputs or outputs. When using fibre output, gives access to one 3Gb/s, HD or SD input, two 3Gb/s, HD or SD outputs (one on fibre and one on BNC) and eight AES inputs or outputs
RM61	Two slot frame rear module. Allows 12 boards in 4U, six in 2U, three in 1U and one in desk top box. Designed for applications using fibre inputs or outputs. Suitable for 75 ohm digital audio. When using fibre input, allows you to select between one fibre and one electrical 3Gb/s, HD or SD input, and gives out one 3Gb/s, HD or SD output and eight AES inputs or outputs. When using fibre output, gives access to one 3Gb/s, HD or SD input, two 3Gb/s, HD or SD outputs (one on fibre and one on BNC) and eight AES inputs or outputs
FIP	Fibre input option for TANDEM 3G motherboard
FOP	Fibre output option for TANDEM 3G motherboard
REMINd	19" remote control panel
REMINd-E	19" Ethernet remote control panel
Statesman	PC Control System
SNMP	SNMP monitoring and control

Features are subject to change. TANDEM3G-PROV0410