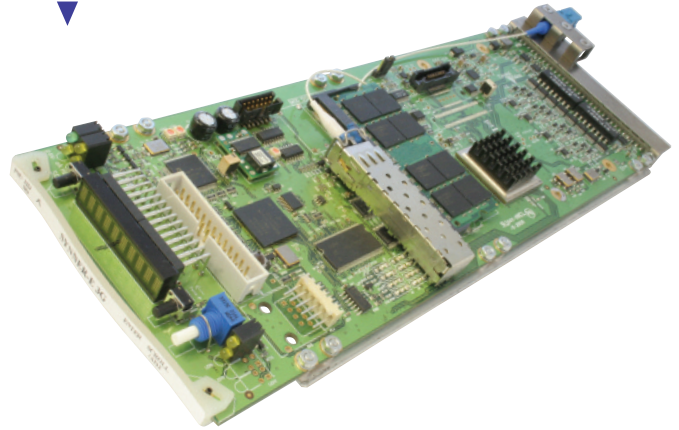


Crystal Vision

SYNNER-E 3G

3G/HD/SD video synchroniser, tracking audio delay and embedder/de-embedder with Dolby E processing

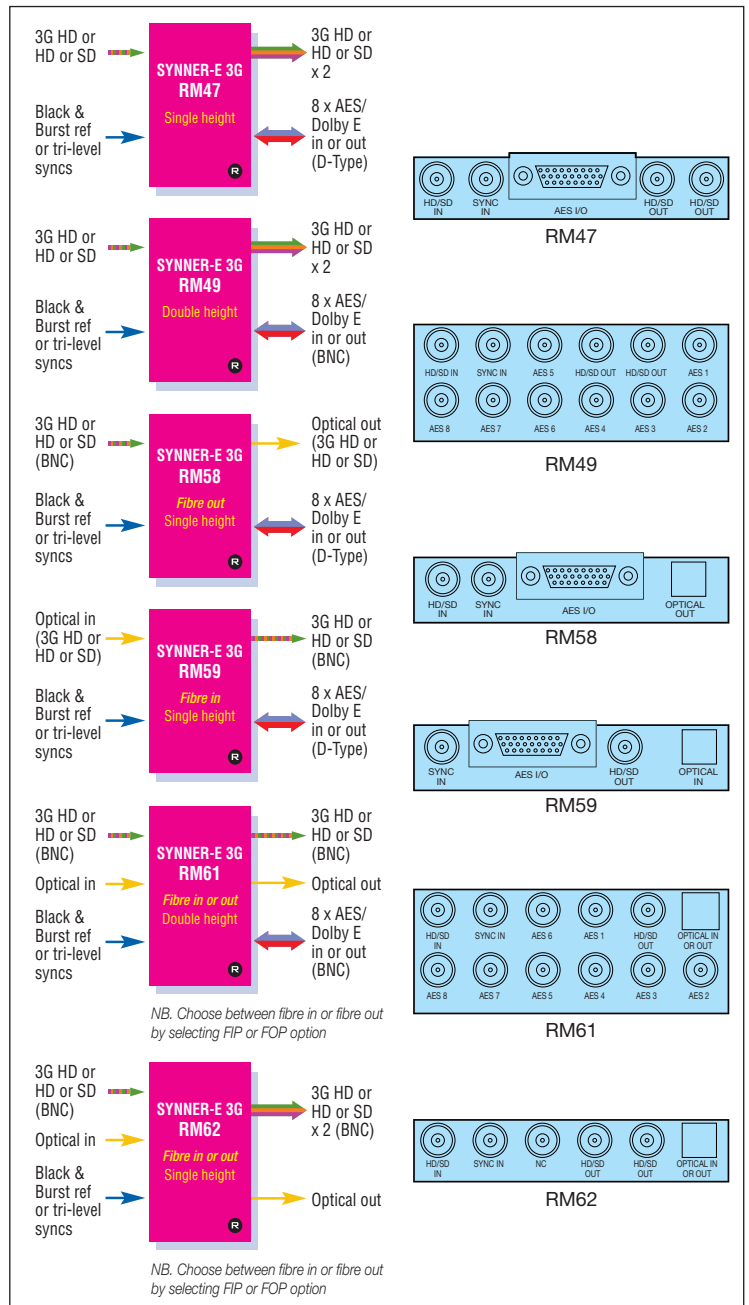


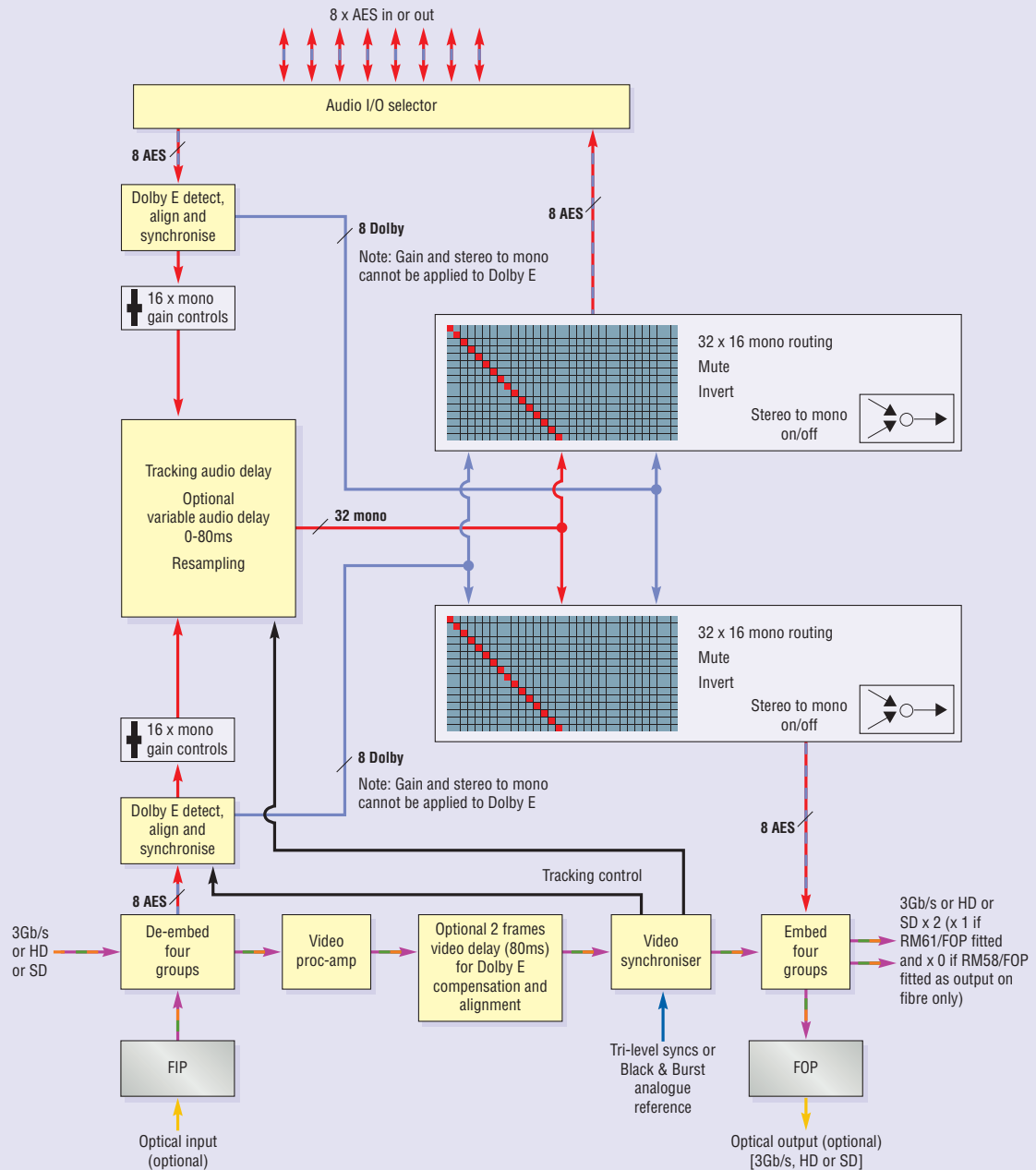
PREVIEW INFORMATION

The ultimate device for all embedding, de-embedding and timing requirements – combines a video synchroniser, tracking audio delay, embedder, de-embedder, audio processor and video proc-amp on one board, and includes special features for flexible processing of Dolby E.

MAIN FEATURES

- Simplify your system design:** the inclusion of a synchroniser, tracking audio delay, embedder, de-embedder, audio processor and video proc-amp gives you multiple functionality on one board
- Use it with any source:** works with 3Gb/s, HD and SD
- 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
- Use it as a synchroniser or fixed delay line:** it can synchronise incoming video signals which are not locked to the local reference and compensate for timing delays within the video system
- Excellent synchronising features:** full vertical and horizontal timing adjustment, cross-locking (allowing use of either tri-level syncs or Black & Burst as the analogue reference), and fast locking after an upstream switch to avoid picture disturbance
- Optimise the video:** video proc-amp allows adjustment of video gain, black level and independent YUV gains
- Use as many audio groups as you need:** works with up to four groups
- 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 the two 32 x 16 audio routers
- Unmatched functionality for Dolby E users:** synchronise video which contains a mixture of Dolby E and standard AES within a single audio group, embed and de-embed Dolby E and correctly align Dolby E data with the video frame to ensure guardband in exactly the right place
- Easy to match all your signals:** the tracking audio delay will track the video delay, running the audio fast or slow to ensure the video and audio stay correctly timed – while there's the option to use 80ms of fixed audio delay on top of the tracking as well as one or two frames of video delay to compensate for any Dolby E delays
- Optimise the audio:** each channel has individual gain control, channel muting and stereo to mono conversion for the linear audio
- Suitable for use with either 110 ohm or 75 ohm digital audio:** use the RM47, RM49, RM58, RM59, RM61 and RM62 frame rear modules to access the inputs and outputs
- Flexible control:** select from board edge, front and remote panels, SNMP, GPIs and PC software
- Saves rack space:** the 100mm x 266mm module fits in Crystal Vision's standard frames and allows 12 SYNNER-E 3G in 2U (24 in 4U, six in 1U and two in desk top box)





ORDERING INFORMATION

SYNNER-E 3G	3G/HD/SD video synchroniser, tracking audio delay, embedder/de-embedder and audio and video processor for up to four groups of audio, with special Dolby E processing
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
RM58	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 outputs. Suitable for 110 ohm digital audio. Gives access to one 3Gb/s, HD or SD input (on fibre), one 3Gb/s, HD or SD output (on fibre) and eight AES inputs or outputs
RM59	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. Suitable for 110 ohm digital audio. Gives access to one 3Gb/s, HD or SD input (on fibre), one 3Gb/s, HD or SD output 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
RM62	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 and for video-only applications (does not have any audio connections). When using fibre input, allows you to select between one fibre and one electrical 3Gb/s, HD or SD input, and gives out two 3Gb/s, HD or SD outputs. When using fibre output, gives access to one 3Gb/s, HD or SD input and three 3Gb/s, HD or SD outputs
FIP	Fibre input option for SYNNER-E 3G motherboard
FOP	Fibre output option for SYNNER-E 3G motherboard
REMIN D	19" remote control panel
REMIN D-E	19" Ethernet remote control panel
Statesman	PC Control System
SNMP	SNMP monitoring and control

Features are subject to change. SYNNER-E3G-PROV0711