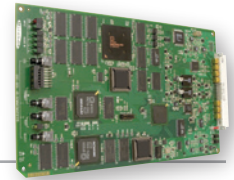


# XVP-811i HD/SD Universal Video Processor/Cross Converter

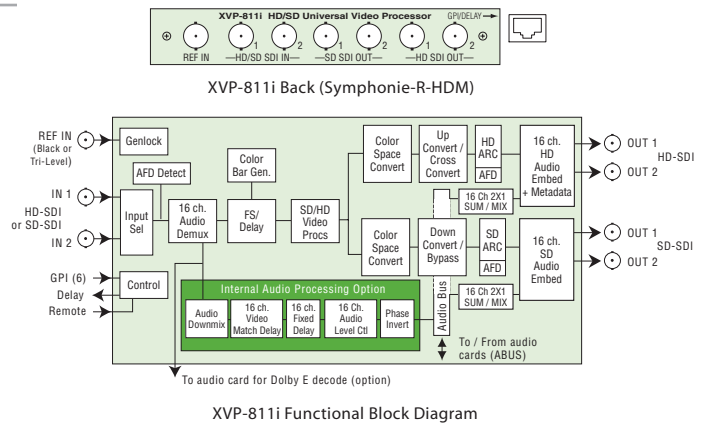


The XVP-811i is a highly integrated module designed to synchronize, convert and process HD and SD signals into HD/SD hybrid plants. The XVP-811i can accept either SD or HD inputs and will provide SD and HD outputs simultaneously. Each output path provides the format, color space and aspect ratio conversion necessary to maintain a constant signal format at each of the two outputs. Format conversion adjusts automatically if the input is switched, or if the input format changes. A cross converter feature even allows the XVP-811i to convert from 720p to 1080i and vice versa. The XVP-811i is ideal for processing incoming satellite feeds in broadcast

facilities, and for processing incoming lines for mobile production trucks. The XVP-811i's dual inputs can be used to switch between an SD and HD source. Alternatively, an upstream router can be used to select sources, and the XVP-811i's second input can be used to connect a backup source which will be automatically selected when the main source fails. The XVP-811i can process up to 16 channels (4 groups of embedded audio) or, if discrete AES inputs/outputs are required, the XVP-811i can be combined with the DAP-781i audio processing module. (see page 165).

## Key Features and Benefits

- ⊕ Built-in up, down and cross conversion
- ⊕ Dual HD/SD inputs - simultaneous, independent HD and SD outputs
- ⊕ HD output can be 1080i50, 1080i59.94, 720p50 or 720p59.94
- ⊕ SD output can be 480i (525/59.94) or 576i (625/50)
- ⊕ Automatic aspect ratio conversion using Active Format Description (AFD)
- ⊕ Independent aspect ratio converters for HD and SD outputs
- ⊕ Up to 16 channels of embedded audio processing, with independent HD and SD audio embedders
- ⊕ Audio downmix from 5.1 to 2.0 Lt Rt/stereo
- ⊕ Compatible with DAP-781i external audio processor module (see page 165)
- ⊕ Built-in frame sync and proc amp
- ⊕ Flexible HD/SD reference input, auto failover/change-over to second input
- ⊕ Processes and converts Ancillary Data such as CC (608/708) and Time Code
- ⊕ Dolby™ Metadata insertion in HD-SDI signal



## Technical Specifications

<b>VIDEO INPUTS (2)</b>		<b>SUPPORTED FORMATS:</b>		<b>REFERENCE INPUT</b>		<b>AUDIO PROCESSING PERFORMANCE (OPTIONAL)</b>	
<b>SIGNAL:</b>	SMPTE 259M-C (270Mbps) and SMPTE 292M (1.485, 1.485/1.001 Gbps)	<b>FORMATS:</b>	SD: 480i59.94, 576i50; 4:3 or 16:9 Anamorphic	<b>SIGNAL (1):</b>	SMPTE 170M/SMPTE 318M/ITU 624-4/BUT 470-6 or Comp. Sync SMPTE 274M / SMPTE 296M Tri-Level Sync	<b>QUANTIZATION:</b>	20-24 bits
<b>SUPPORTED FORMATS:</b>	SD: 480i59.94, 576i50 HD: SMPTE 274M: 1080i59.94, 1080i50 HD: SMPTE 296M: 720p59.94, 720p50	<b>RETURN LOSS:</b>	> 15 dB up to 270 MHz	<b>RETURN LOSS:</b>	> 35 dB up to 5.75 MHz	<b>SAMPLING:</b>	48 kHz, synchronous
<b>CABLE LENGTH:</b>	275 m (900') Belden 8281 at 270 Mbps 140 m (350') Belden 1694A at 1.485 Gbps	<b>JITTER:</b>	< 0.2UI as per SMPTE 259M	<b>GPI (6) CONNECTOR:</b>	RJ-69 (RJ-45 10-pin contacts) providing 4 user preset recalls and 2 input select Opto-isolated, contact closure to ground	<b>CHANNELS:</b>	16, 8 pairs, 4 Groups
<b>RETURN LOSS:</b>	> 15 dB up to 1.5 GHz	<b>HD VIDEO OUTPUT</b>		<b>VIDEO PROCESSING PERFORMANCE</b>		<b>OTHER TEST PATTERN GENERATOR:</b>	Color bars 100% white With 75% bars
<b>SD VIDEO OUTPUT</b>		<b>SIGNAL (2):</b>	SMPTE 292M (1.485, 1.485/1.001 Gbps)	<b>SIGNAL PATH:</b>	10 bits	<b>TEST TONE GENERATOR:</b>	-18 dBfs, 24 bit, 1kHz continuous tone on right channel with pulsed tone on left channel in every pair.
<b>SIGNAL (2):</b>	SMPTE 259-C (270 Mbps)	<b>SUPPORTED FORMATS:</b>	HD: SMPTE 274M: 1080i59.94, 1080i50 HD: SMPTE 296M: 720p59.94, 720p50	<b>PROCESSING DELAY:</b>	1 frame minimum, 4 frames maximum	<b>POWER:</b>	16 W
		<b>RETURN LOSS:</b>	> 15 dB up to 1.5 GHz	<b>ADDITIONAL FIXED DELAY:</b>	Up to 3 frames		
		<b>JITTER:</b>	< 0.2 UI as per SMPTE 292M				

## Ordering Information

XVP-811i	HD/SD Universal Video Processor/Cross Converter	Remote Control:	
Housing Frames:	Symphonie, Quartet 2	iControl	Remote Control and Monitoring
Rear Modules:	Symphonie-R-HDM	iControl Solo	Stand-alone Remote Control Software
Options:		RCP-100	Remote Control Panel
XVP-811-OPT-AUD16	16 Channel Internal Audio Processing Option	Related product:	DAP-781i