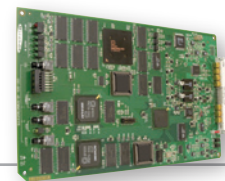


XVP-811i-FSDC

HD/SD Downconverter/Frame Synchronizer/Processor

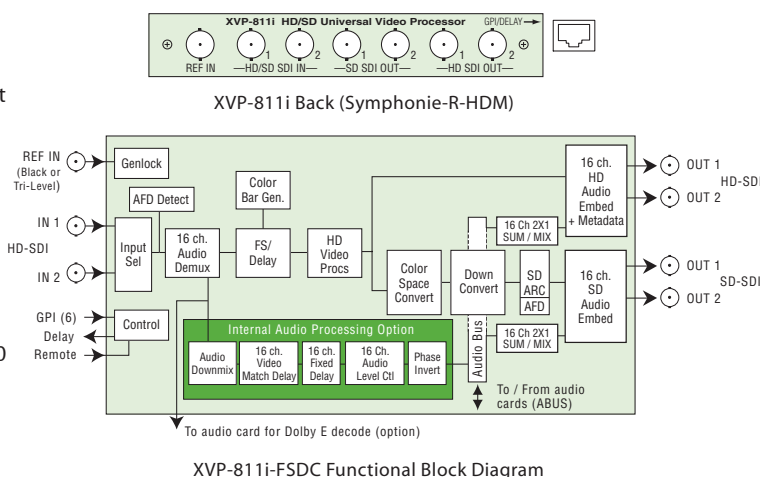


The XVP-811i-FSDC is a highly integrated module designed to synchronize, down convert and process HD signals into HD/SD hybrid plants. The XVP-811i-FSDC provides SD and HD outputs simultaneously. Each output path provides the format, color space and aspect ratio conversion necessary to maintain a constant signal format at each of the two outputs. Format conversion adjusts automatically if the input is switched. The XVP-811i-FSDC is ideal for processing incoming satellite feeds in broadcast facilities, and for processing incoming lines for mobile production trucks. The

XVP-811i-FSDC's dual inputs can be used to switch between HD sources. Alternatively, an upstream router can be used to select sources, and the second input can be used to connect a backup source which will be automatically selected when the main source fails. The XVP-811i-FSDC can process up to 16 channels (4 groups of embedded audio) or, if discrete AES inputs/outputs are required, the XVP-811i-FSDC can be combined with the DAP-781i audio processing module. The XVP-811i-FSDC can be upgraded in the field to the full XVP-811i functionality at any time.

Key Features and Benefits

- Built-in frame sync, proc amp and down conversion
- Dual HD 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)
- Up to 16 channels of embedded audio processing, with independent HD and SD audio embedders
- Automatic aspect ratio conversion using Active Format Description (AFD)
- Compatible with Miranda external audio processor modules
- Flexible HD/SD reference input
- Auto failover/change-over to second input
- Independent aspect ratio converters on HD and SD outputs
- Processes and converts Ancillary Data such as CC (608/708) and TC
- Audio downmix from 5.1 to 2.0 Lt Rt/stereo
- Dolby Metadata insertion in HD-SDI signal



Technical Specifications

VIDEO INPUTS (2)

SIGNAL:	SMPTE-292M (1.485, 1.485/1.001 Gbps)
SUPPORTED FORMATS:	HD: SMPTE-274M: 1080i59.94, 1080i50 HD: SMPTE-296M: 720p59.94, 720p50
CABLE LENGTH:	140 m (350') Belden 1694A at 1.485 Gbps
RETURN LOSS:	> 15 dB up to 1.5 GHz

SD VIDEO OUTPUT

SIGNAL (2):	SMPTE 259-C (270 Mbps)
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SUPPORTED

FORMATS:	SD: 480i59.94, 576i50; 4:3 or 16:9 Anamorphic
RETURN LOSS:	> 15 dB up to 270 MHz
JITTER:	< 0.2 UI as per SMPTE 259M

HD VIDEO OUTPUT

SIGNAL (2):	SMPTE 292M (1.485, 1.485/1.001 Gbps)
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SUPPORTED

FORMATS:	HD: SMPTE 274M: 1080i59.94, 1080i50 HD: SMPTE 296M: 720p59.94, 720p50
RETURN LOSS:	> 15 dB up to 1.5 GHz
JITTER:	< 0.2 UI as per SMPTE 292M

REFERENCE INPUT

SIGNAL (1):	SMPTE 170M/SMPTE 318M/ITU 624-4/BUT 470-6 or Comp. Sync SMPTE 274M / SMPTE 296M Tri-Level Sync
RETURN LOSS:	> 35 dB up to 5.75 MHz

GPI (6)

CONNECTOR:	RJ-69 (RJ-45 10-pin contacts) providing 4 user preset recalls and 2 input select Opto-isolated, contact closure to ground
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VIDEO PROCESSING PERFORMANCE

SIGNAL PATH:	10 bits
PROCESSING DELAY:	1 frame minimum, 4 frames maximum

ADDITIONAL FIXED

DELAY:	Up to 3 frames
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AUDIO PROCESSING PERFORMANCE (OPTIONAL)

QUANTIZATION:	20-24 bits
SAMPLING:	48 kHz, synchronous
CHANNELS:	16, 8 pairs, 4 Groups

OTHER

TEST PATTERN GENERATOR:	Color bars 100% white
WITH 75% BARS TEST TONE GENERATOR:	-18 dBfs, 24 bit, 1kHz continuous tone on right channel with pulsed tone on left channel in every pair.
POWER:	16 W

Ordering Information

XVP-811i-FSDC	XVP Configured as HD Frame sync and down converter
Housing Frames:	Symphonie, Quartet 2
Rear Modules:	Symphonie-R-HDM
Options:	
XVP-811i-OPT-AUD16	Internal 16 ch. Embedded Audio Processing Option
XVP-811i-UG-FSDC2XVP	Upgrade XVP-811i-FSDC to full XVP

Remote Control:	
iControl	Remote Control and Monitoring
iControl Solo	Stand-alone Remote Control Software
RCP-100	Remote Control Panel
Related product:	XVP-811i