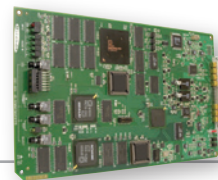


XVP-811i-UC HD/SD Upconverter/Frame Synchronizer/ARC

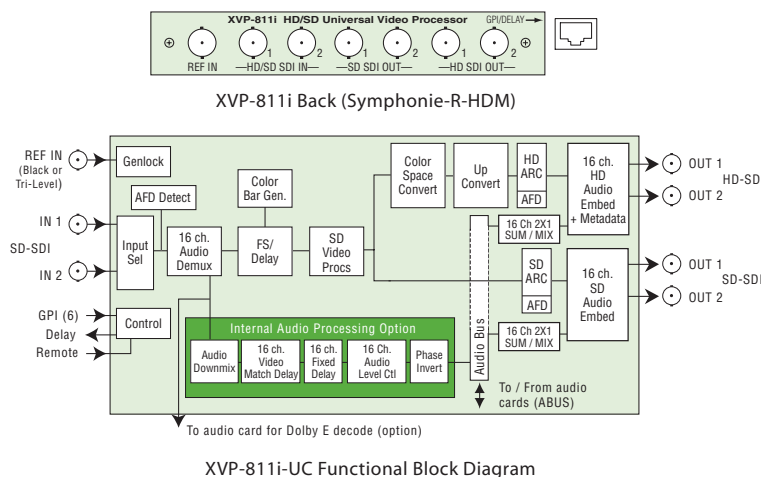


The XVP-811i-UC is a highly integrated module designed to synchronize, Upconvert and process SD signals into HD/SD hybrid plants. The XVP-811i-UC will provide SD and HD outputs simultaneously. Each output path provides the format, color space and aspect ratio conversion necessary to maintain a constant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

dual inputs can be used to switch between SD 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-UC can process up to 16 channels (4 groups of embedded audio) or, if discrete AES inputs/outputs are required, the XVP-811i-UC can be combined with the DAP-781i audio processing module. The XVP-811i-UC can be upgraded in the field to the full XVP-811i functionality at any time.

Key Features and Benefits

- ➔ Dual 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)
- ➔ 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: SD: 480i59.94, 576i50
CABLE LENGTH: 275 m (900') Belden 8281 at 270 Mbps
RETURN LOSS: > 15 dB up to 270 MHz

SD VIDEO OUTPUT

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

VIDEO PROCESSING PERFORMANCE

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

ADDITIONAL FIXED DELAY:

Up to 3 frames

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: 10 W

Ordering Information

XVP-811i-UC XVP configured as HD Upconverter
 Housing Frames: Symphonie, Quartet 2
 Rear Modules: Symphonie-R-HDM
 Options:
 XVP-811-OPT-AUD16 Internal 16 ch. Embedded Audio Processing Option
 XVP-811i-UG-UC2XVP Upgrade from XVP-811i-UC to full XVP

Remote Control:
 iControl Remote Control and Monitoring
 iControl Solo Stand-alone Remote Control Software
 RCP-100 Remote Control Panel
 Related product: DAP-781i