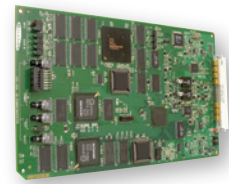


# QUC-801i/V/K

## HD Upconverter

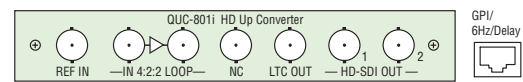


The QUC-801i/V/K cards are high-quality SDI to HD-SDI upconverters. These compact upconverters can be used for multiple applications, including upconverting a station main feed for compliance, and converting SD cameras and incoming feeds for mobile trucks. Post-production houses can use the video only version, the QUC-801i/V, as they process audio separately. Popular and custom aspect ratios can

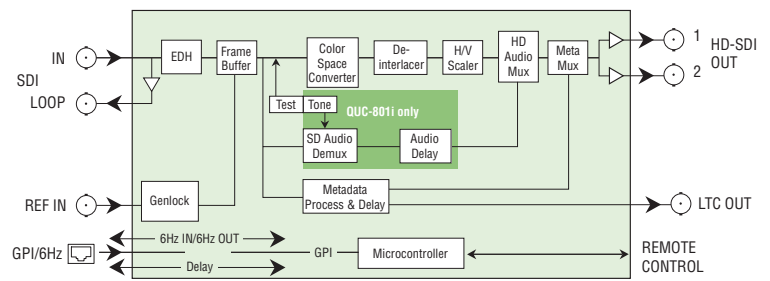
be selected; these settings can be saved in user presets and recalled by software or GPI. Audio, time code, and CC can be extracted, delayed, processed or re-inserted into the HD-SDI. The upconverter comprises a single Imaging card, and this provides both flexibility and density. Up to 4 cards can be used in the new Quartet 2 (1 R.U. frame) or up to 16 cards in a Symphonie (4 R.U. frame).

### Key Features and Benefits

- Automatic input format detection
- SDI Input with loop through
- HD/SD Genlock
- Built-in frame synchronizer
- Dual HD-SDI outputs
- LTC time code output
- High quality adaptive 3D de-interlacing with edge detection
- Ultra-low ringing Scaler
- Color space conversion
- Built-in Noise Reducer and Detail Enhancer
- Aspect ratio conversion, resizing and positioning (DVE)
- 3:2 detection from SDI input, embedded T/C or 6 Hz pulse
- Menu access to default ARC modes and favorite custom blends
- Extraction & re-embedding of up to 16 channels of digital audio data with delay compensation and lip-sync correction
- Dolby E support
- Time code & CC processing
- Built-in test pattern & tone
- Configuration and operation by card edge, GPI, RCP-100 or iControl



QUC-801i Back (Symphonie-R-HDM)



QUC-801i Functional Block Diagram

### Technical Specifications

<p><b>VIDEO INPUT</b></p> <p><b>SIGNAL:</b> SDI SMPTE 259M-C (270 Mbps), SMPTE 272M with active loop-through</p> <p><b>CABLE LENGTH:</b> 250 m (850') (Belden 8281)</p> <p><b>RETURN LOSS:</b> &gt; 15 dB up to 270 MHz</p> <p><b>REFERENCE INPUT</b></p> <p><b>EXT. REF.:</b> SMPTE 170M / SMPTE 318M / ITU 624-4 / BTU 470-6 or Comp. Sync SMPTE 274M / SMPTE 296M Bi/Tri-Level Sync</p> <p><b>RETURN LOSS:</b> &gt; 35 dB up to 5.75 MHz</p> <p><b>VIDEO OUTPUT SIGNALS: (2)</b></p> <p><b>SIGNAL:</b> SMPTE 292M (1.485, 1.485/1.001 Gbps), SMPTE 299M</p>	<p><b>SUPPORTED FORMATS:</b> SMPTE 274M: 1080i59.94, 1080i50(480p/1080i transport) SMPTE 296M: 720p59.94, 720p50 (576p/720p transport)</p> <p><b>RETURN LOSS:</b> &gt; 15 dB up to 1.5 GHz</p> <p><b>JITTER:</b> &lt; 0.2 UI (135 ps) as per SMPTE 292M</p> <p><b>LTC OUTPUT</b></p> <p><b>SIGNAL:</b> SMPTE 12M</p> <p><b>SOURCE IMPEDANCE:</b> &lt; 50 Ω unbalanced</p> <p><b>LEVEL:</b> 2 Vp-p (unloaded)</p>	<p><b>RJ-69</b></p> <p><b>CONNECTOR:</b> RJ-69 (RJ-45 10-contacts)</p> <p><b>SIGNALS:</b> 4 GPI inputs, 6Hz input pulse, 6Hz output pulse. All inputs and outputs opto-isolated.</p> <p><b>DELAY TRACKING:</b> Miranda video-audio tracking signal</p> <p><b>DIGITAL PROCESSING PERFORMANCE</b></p> <p><b>SIGNAL:</b> 10 bits</p> <p><b>PROCESSING DELAY:</b> 1 frame (+/- 8 lines)</p> <p><b>AUDIO PROCESSING PERFORMANCE (QUC-801i ONLY)</b></p> <p><b>QUANTIZATION:</b> 20-24 bits (according to input)</p>	<p><b>SAMPLING:</b> 48 kHz, synchronous</p> <p><b>CHANNELS:</b> 16 (4 groups)</p> <p><b>OTHER</b></p> <p><b>TEST PATTERN GENERATOR:</b> Color bars 100% white with 100% bars with white box for 4:3/16:9 aspect ratio</p> <p><b>TEST TONE GENERATOR (QUC-801i ONLY):</b> -18dBFs, 24-bit, 1kHz continuous tone on right channel with pulsed tone on left channel</p> <p><b>POWER:</b> 10 W</p> <p><b>PHYSICAL FORMAT:</b> imaging size (6.0 in. x 10.0 in.)</p>
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### Ordering Information

QUC-801i	HD Upconverter	Remote Control:	
QUC-801i/V	HD Upconverter (video only)	iControl	Remote Control and Monitoring
QUC-801i-BDL-K	QUC-801i/V Upconverter bundle for CG Application (2 card set)	iControl Solo	Stand-alone Remote Control Software
QUC-801i-BDL2-K	QUC-801i Upconverter bundle for CG Application (2 card set)	RCP-100	Remote Control Panel
Housing Frames:	Symphonie, Quartet 2		
Rear Modules:	Symphonie R-HDM		