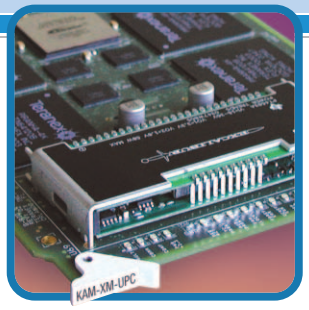
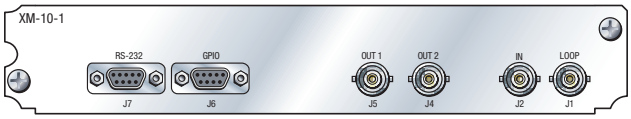


Designed for HD upconversion of SDI video with or without embedded audio, our KAM-XM-UPC module provides uncompromised, high-quality performance in a cost-effective platform. It features Teranex de-interlacing, 3:2 detection, and detail-enhancement technologies combined with powerful array processing provide the best imaging solution. It also supports our Newton Ethernet-based modular control system, NetConfig configuration tools, and NetCentral SNMP-based monitoring software.



key features

- *HD high-quality digital video upconversion in a single, dual height module set*
- *User selection of the following up-conversion rates:*
  - *480i59.94 to 480p59.94, 720p59.94, 1080i59.94*
  - *576i50 to 576p50, 720p50, 1080i50*
- *Color-space conversion*
- *Picture detail enhancement with selectable horizontal and vertical picture detail sharpen and soften adjustments*
- *Aspect-ratio conversion with selectable of anamorphic, common top, and common side along with zoom, crop, and edge trim, with the ability to adjust fill shade video levels*
- *Video gain, black level, chroma saturation, and hue adjustments*
- *Active loop-through of selected 270 Mb/s SDI input source*
- *Two HD SDI video outputs*
- *Re-embeds first two groups of audio from SD video into the HD video stream with compensating delay*
- *Dolby E supported*
- *Reinsertion of closed-caption data (EIA-608A to 708B) into HD output stream*
- *10 user-programmable presets with selectable store and recall*
- *Three GPI contact closures*
- *Hot swappable module set*
- *Card edge LEDs for signal presence and module status*
- *Processes up to two program streams in a single 1 RU frame—up to six in a 3 RU frame*

specifications

Serial Video Input

Standard: SMPTE 259C (270 Mb/s)

Number of Inputs: One with active loop output

Connector: BNC per IEC 60169-8 Amendment 2

Equalization: Automatic to 300m @ 270 Mb/s with Belden 1694 or equivalent cable

Return Loss: >15 dB @ 270 Mb/s

Active Input Loop-Through Output

Standard: SMPTE 259C (270 Mb/s)

Number of Outputs: One

Connector: BNC per IEC 60169-8 Amendment 2

DC Offset: 0V ±0.5V

Rise and Fall Time: 750 ps nominal for SD

Overshoot: <10% of amplitude

Return Loss: >15 dB at 270 Mb/s

Wideband Jitter: < 0.2 UI

Upconverted Serial Video Output

Standard: SMPTE 292M (1.5 Gb/s)

Number of Outputs: Two

Connector: BNC per IEC 60169-8 Amendment 2

DC Offset: 0V ±0.5V

Rise and Fall Time: 750 ps nominal for SD

Overshoot: <10% of amplitude

Return Loss: >9 dB @ 1.5 Gb/s

Wideband Jitter: < 0.2 UI

Input to Output Processing Delay

Video Delay: Four frames

Audio Delay: Delayed and re-embedded in time with the output video

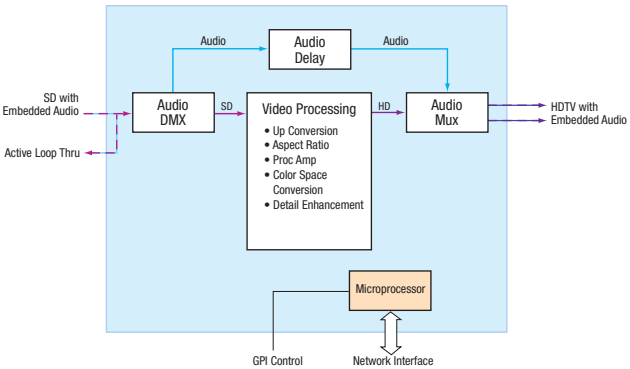
Electrical

Power: 27W

EMI/RFI: Complies with FCC Part 15 Class A, EU EMC Directive

Physical

Number of Slots: Two, Installation in even numbered frame slots recommended for maximum frame density



ordering information

KAM-XM-UPC
HD upconverter

KAMXMUDCMAN
Manual for KAM-XM-UPC, -UNC, -UDC, -UCG, -DNC Module Sets

2000T1DNG
1 RU frame, power supply, 2000NET, and 2000GEN

2000T3NG
3 RU frame, power supply, 2000FAN, 2000NET, and 2000GEN

NEWT-RM
1 RU Newton control panel and modular control system

NEWT-PC
Software Newton control panel and modular control system