

- UHD 4K**
- SMPTE 2082-10**
- Two sample Interleave**
- 12Gb/s**
- AES/EBU**

**KUGM404**  
12G, 3G, HD-SDI Cross Converter

**Features**

- 12G,3G,HD-SDI 4 Inputs
- 12G,3G,HD-SDI 4 Outputs : Cross Converting
- Audio Embedder & De-Embedder
- Gear Box MUX & De-MUX
- SDI Up & Down Converting
- Frame Sync & Test Generator
- HDR Function (Optional : Change Software)
- Full control, status monitoring through the front panel of the frame and the Ethernet port (ACP)

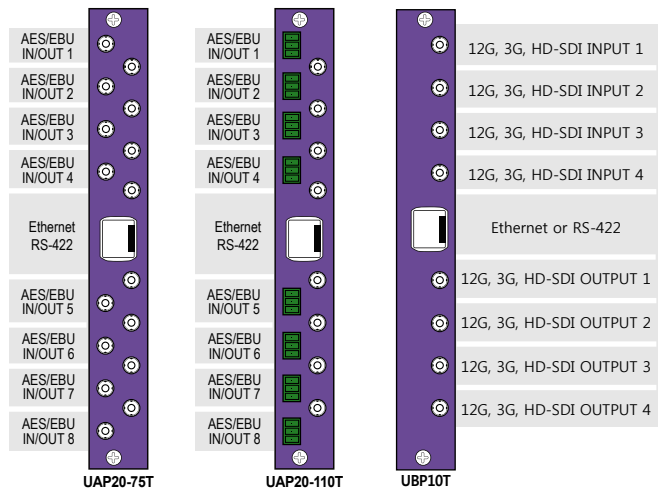
**Specifications**

**Serial video input**

Standard	12G, 3G-SDI and HD-SDI : ST-2082-10, SMPTE425, SMPTE 292M
Number of input	4
Connector	HD-BNC
Equalization	Typical maximum equalized length of 5C cable: 85m at 11.88Gb/s, 200m at 2.97Gb/s, 250m at 1.485Gb/s

**Serial video output**

Number of output	4
Connector	HD-BNC
Signal level	800mV nominal
DC offset	0V±0.5V
Rise/fall time	<28ps nominal
Overshoot	<10% of amplitude
Return loss	<6dB-6GHz to 12GHz
Wideband jitter	<0.3UI



**AES Input / Output**

Connector	8 AES-EBU unbalanced (HD-BNC 75Ω) or 8 AES-EBU balanced (Terminal Block 110Ω)
Standard	AES-1992 for balanced synchronous or asynchronous PCM/AES, SMPTE 276M for single ended synchronous or asynchronous PCM/AES
Number of output	4 or 4, 8(embed), 8(de-embed)
Sampling rate	32 kHz to 96 kHz asynchronous 48 kHz Synchronous (SRC=off)
Resolution	24 bit
Minimum input/output delay	2 ms
Impedance	110 Ohm or 75 Ohm
Level	0.2V to 1V nom for Coax, 2V to 7V for balanced operation

**Miscellaneous**

Weight	250g
Operating	0°C to +50°C
Dimensions	137 x 296 x 20 mm(HxWxD)

**Electrical**

Voltage	+24V to +30V
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