

12GM

12G-SDI to/from SDI Muxer/DeMuxer

12GM is a compact SDI transport converter that enables 12G-SDI to Quad link 3G-SDI and Quad link 3G-SDI to 12G-SDI conversion. The Muxer/Demuxer supports 4K, UltraHD, 2K, HD and SD workflows and conversions from quad link SDI signals to single link SDI signals, and vice versa at 12G, 6G, 3G and 1.5G bit rates. Both Square Division (Quadrant) and Two Sample Interleave (2SI) Input and Output formats are supported.



Features:

- Compact 12G-SDI to/from quad-link 3G-SDI conversion and 6G-SDI to/from quad-link 1.5G-SDI
- SMPTE 2082 inputs and outputs configurable to SMPTE 425 inputs and outputs
- Two Sample Interleave (2SI) to Square Division (Quadrant) pixel mapping
- Square Division (Quadrant) to Two Sample Interleave (2SI) pixel mapping
- Input signal diagnostics
- Input timing analyzer for quad-link signals
- Configurable as a 1x4 Distribution Amplifier for 12G, 6G, 3G and 1.5G bit rates
- Automatic equalizing and reclocking with jitter attenuation
- DWP-U-R1 power supply included
- Five year warranty

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Tech Specs

Video Formats

- (4K) 4096 x 2160p
- (UltraHD) 3840 x 2160p
- (2K) 2048 x 1080p
- (HD) 1920 x 1080p
- (HD) 1920 x 1080i
- (HD) 1280 x 720p
- (SD) 720 x 576i
- (SD) 720 x 480i

Video Input/Output Digital

- 4x 12G-SDI BNC, SMPTE 259/292/424/2081/2082
- YCbCr 4:2:2
- 8 or 10-bit
- Two Sample Interleave (2SI) or Square Division (Quadrant) input and output mapping
- 1x 12 Gb SDI
- 4x 3 Gb SDI (Level A)
 - (4K) 4096 x 2160p 50, 59.94, 60
 - (UltraHD) 3840 x 2160p 50, 59.94, 60
- 1x 6 Gb SDI
- 4x 1.5 Gb SDI
 - (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30
 - (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30
- 1x 3 Gb SDI (Level A)
 - (2K) 2048 x 1080p 50, 59.94, 60
 - (HD) 1920 x 1080p 50, 59.94, 60
- 1x 1.5 Gb SDI
 - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30
 - (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080i 50, 59.94, 60
 - (HD) 1280 x 720p 50, 59.94, 60
- 1x 270 Mb SDI
 - (SD) 625i 50
 - (SD) 525i 59.94

Support Conversions and Functions

- Quad 3G-SDI to Single 12G-SDI
- Single 12G-SDI to Quad 3G-SDI
- Quad 1.5G-SDI to Single 6G-SDI
- Single 6G-SDI to Quad 1.5G-SDI
- Two Sample Interleave (2SI) to Square Division (Quadrant) pixel mapping
- Square Division (Quadrant) to Two Sample Interleave (2SI) pixel mapping
- Pass through of Single Link 3G, 1.5G and 270M SDI video
- Distribution Amplifier support (1x4)
- Input signal diagnostics
- Input timing analyzer for quad link signals

Cable Equalization

(Belden 1694A coax)

- 12 Gbps, 70m
- 6 Gbps, 100m
- 3 Gbps, 140m
- 1.5 Gbps, 200m
- 270 Mbps, 300m

Audio Input / Output Digital

- Passes SDI embedded audio, 24-bit, up to 16-Channels

User Interface

- USB port used with supplied cable and Mini-Config software application to configure device and access diagnostics via macOS or Windows.

Size (w x d x h)

- 5.76" x 4.02" x 0.90" (146.31 x 102.11 x 22.86 mm)

Weight

- 0.6 lb (0.3 kg)

Power

- 5-20VDC regulated, 12 watts, power supply required, included with purchase
- AC Adapter: 100-240VAC, 50/60 Hz, universal input