

Broadcast 4k Signal Distribution

MG-DA-716

12GSDI 1x6 Distribution Amplifier



OVERVIEW

The MG-DA-716 provides 12G-SDI broadcast quality or lower video distribution in a small, surface mountable form factor. Connect a single SDI source up to 6 re-clocked SDI outputs with automatic switching between all SD-SDI, HD-SDI, 3G-SDI and 6G-SDI video formats.

Get extra distance with re-clocked signals at every output or cascade to create a huge distribution solution. At Magenta Research, we engineer confidence.

KEY FEATURES

- ◆ Capable of 12G/6G/3G/HD/SD-SDI distribution
- ◆ All six outputs are separately buffered and re-clocked
- ◆ Cable equalization and signal re-timing
- ◆ LED indication of signal lock and video rate
- ◆ Passes ancillary data and embedded audio
- ◆ Automatic input signal detection
- ◆ Cascading feature allows for re-clocking of SDI signals
- ◆ Locking power supply
- ◆ Very low power consumption (2 watts maximum)

SPECIFICATIONS

Technical		Mechanical	
SDI standard	SMPTE / DVB-ASI	Housing	Metal enclosure
Multi-Rate Support	Auto detection of SD, HD, 3G, 6G or 12G Signals	Dimensions [L x W x H]	Model 167 x 67 x 26mm [6.6" x 2.6" x 1"] Package 264 x 170 x 77mm [10.3" x 6.7" x 3"] Carton 430 x 358 x 291mm [14" x 12" x 11.5"]
SDI Compliance	SMPTE 424M, SMPTE 292M, SMPTE 344M, SMPTE 259M, DVB-ASI, ST-2081(6G), ST2082(12G)	Weight	Model 397g [14oz] Package 780g [1.7lbs]
SDI Data rates	1.485 / 2.97 / 5.94 / 11.88 Gbps	Power connector	Inter-locked power supply
Output impedance	75Ω	Power supply	5V 0.85A DC
Re-clocking	Yes	Replacement PSU	TBD
Cable equalization	Yes	Power consumption	2 Watts [max]
Audio support	Yes	Operation temperature	0~40°C [32~104°F]
RP-198 pathological patterns	Immune	Storage temperature	-20~60°C [-4~140°F]
PCB stack-up	6-layer board [impedance control — differential 100Ω; single 75Ω]	Relative humidity	20~90% RH [no condensation]
Input	1x BNC [SDI]	General	
Output	6x BNC [SDI]	Compliance	CE, FCC, RoHS
BNC connector	75Ω inter-locked socket	Warranty	5 years
Eye pattern characteristics [12G]	Amplitude: Within 800mV (<10%) Rise/Fall time: Less than 45ps Return Loss: 6dB (6G to 12GHz) Timing jitter: <8.0 UI (10Hz to 1188MHz) Alignment jitter: <0.3 (100KHz to 1188MHz)	Ordering information	
		MG-DA-716	1x6 12G-SDI Distribution Amplifier
		TBD	Replacement PSU