

MDA 4V HD-SDI

FOUR OUTPUT MULTI-RATE SDI DISTRIBUTION AMPLIFIER

- ▶ Automatically adapts to SMPTE and ITU digital video standards
- ▶ Supports data rates up to 3G-SDI video
- ▶ Passes embedded audio, ancillary ID and metadata information, and SD/HD-SDTI digital video signals
- ▶ Input rate presence LED indication
- ▶ Automatic input equalization improves signal transmission distances
- ▶ Automatic output reclocking



The MDA 4V HD-SDI is a compact one input, four output distribution amplifier for SDI and multi-rate HD-SDI serial digital video, including 3G-SDI. It is ideal for use in applications requiring distribution of serial digital video signals, such as broadcast and video production facilities, rental and staging, and medical imaging systems.



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INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The **MDA 4V HD-SDI** is a compact one input, four output distribution amplifier for SDI and multi-rate HD-SDI serial digital video signals up to 2.97 Gbps. It automatically recognizes and adapts to common serial digital video signals that comply with SMPTE and ITU standards, including SMPTE 259M, 292M, and 424M, and ITU-R.BT601 and BT.1120. The MDA 4V HD-SDI is ideal for use in broadcast and video production facilities, medical facilities, rental and staging, and other applications requiring a single serial digital video source to be sent to up to four displays at the same time.

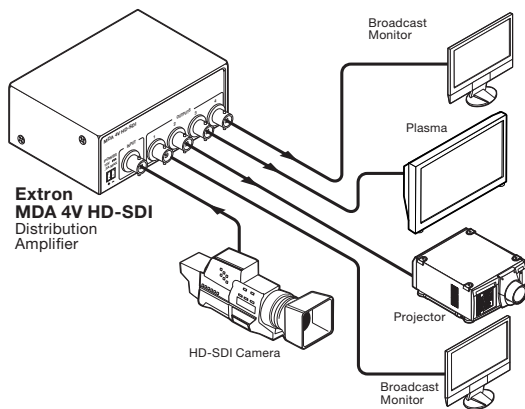
The MDA 4V HD-SDI features automatic input equalization up to 500 feet (150 meters) for all SDI and 400 feet (120 meters) for all HD-SDI data rates from 19 Mbps to 2.97 Gbps. Output reclocking is provided for recognized SDI and HD-SDI standard data rates, including 270 Mbps, 1.485 Gbps, and 2.97 Gbps. A convenient front panel data rate indicator allows visual confirmation of input data rates for quick visual identification of the incoming digital video signal.

Housed in a rack-mountable 1U, one-quarter rack width metal enclosure, the MDA 4V HD-SDI is ideal for easy integration into both new and existing AV systems, including broadcast and production facilities, command and control centers, and medical imaging facilities.

FEATURES

- ▶ Automatically adapts to SMPTE and ITU digital video standards
- ▶ Supports data rates up to 3G-SDI video
- ▶ Passes embedded audio, ancillary ID and metadata information, and SD/HD-SDTI digital video signals
- ▶ Input rate presence LED indication
- ▶ Automatic input equalization improves signal transmission distances:
 - SDI - up to 500 feet (150 m) on RG6
 - HD-SDI - up to 400 feet (120 m) on RG6
- ▶ Automatic output reclocking
- ▶ 1U, one-quarter rack width metal enclosure
- ▶ Energy-efficient external universal power supply included, replacement part # 70-775-01

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO		
Gain	Unity	
Resolution	8 or 10 bits, automatic	
Operation standards	SMPTE-259M, SMPTE292M, SMPTE424M, ITU-RBT.601, ITU-RBT.1120	
Equalization and reclocking	Automatic for up to -30 dB of cable loss	
VIDEO INPUT		
Number/signal type	1 single link SDI, HD-SDI, or 3G-SDI digital component video	
Connectors	1 female BNC	
Data rates	19 Mbps to 2.97 Gbps	
Input cable equalization	Automatic	
HD-SDI	120 m (400') using Extron RG6 cable 60 m (200') using Extron RG59 cable	
SDI	150 m (500') using Extron RG6 cable 120 m (400') using Extron RG59 cable	
Nominal level	0.8 Vp-p	
Return loss	=15 dB @ 5 MHz to 1.5 GHz =10 dB @ 1.5 GHz to 3.0 GHz	
Input coupling	AC	
VIDEO OUTPUT		
Number/signal type	4 single link SDI, HD-SDI, or 3G-SDI digital component video	
Connectors	4 BNC female	
Re-clocking	Automatic for 270 Mbps, 1.485 Gbps, 2.97 Gbps, or bypassed for other rates	
Nominal level	0.8 Vp-p	
GENERAL		
External power supply	100 VAC to 240 VAC, 50-60 Hz, external, to 12 VDC, 1 A, regulated	
Power input requirements	12 VDC, 0.4 A	
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing	
Cooling	Convection, no vents	
Mounting	Rack mount: With optional 1U rack shelf or with back of the rack mounting kit Furniture mount: Yes, with optional under desk mounting kit	
Enclosure type	Metal	
Enclosure dimensions	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)	
Product weight	0.5 lbs (0.2 kg)	
Shipping weight	2 lbs (1 kg)	
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Regulatory compliance	Safety: CE, c-UL, UL EMI/EMC: CE, C-tick, FCC Class A, ICES, VCCI	
MTBF	30,000 hours	
Warranty	3 years parts and labor	
NOTE: All nominal levels are at ±10%.		
Model	Version Description	Part number
MDA 4V HD-SDI	1x4 Multi-Rate SDI	60-884-01

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.



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