



MDA-55

1x4 3G/HD/SD-SDI or ASI Distribution Amplifier



The MDA-55 is a 3G/HD/SD-SDI and ASI distribution amplifier with exceptional performance at a compact size. The input signal can be 143Mb/s, 177Mb/s, 270Mb/s, 360Mb/s, 540Mb/s, 1.485Gb/s or 2.97Gb/s standards. It restores the incoming signal to its proper amplitude. The signal is reshaped with automatic equalization and DC restoration. The signal output level is 800mV p-p, and re-clocked.

The MDA-55 includes an automatic input cable compensation circuit commonly referred to as an adaptive cable equalizer. It's maximum equalized cable length; for SD up to 750 feet at 270Mb/s, for HD up to 250 feet at 1.485Gb/s, and for 3G up to 150 feet at 2.97Gb/s.

The MDA-55 includes a crystal referenced re-clocking circuit that senses three data rates: 270Mb/s, 1.484Gb/s, and 2.97Gb/s. If the data rate is one of these three rates, the re-clocker will automatically activate and reduce high frequency jitter. If the incoming data rate is not any of the above, then the MDA-55 re-clocker will go into the bypass mode. If the data rate is 143 Mb/s or 177 Mb/s, the MDA-55 output rise times are slowed down to comply with the SMPTE 259 specification. The default for the MDA-55 is the faster SMPTE 292 HD rise time.

The MDA-55 has four outputs are provided on the end panel, as well as, a detachable DC power cable. These are four outputs that follow whatever the input is. There are three LED's, on the end opposite of the BNC connectors, indicating re-clocker locked (red-unlocked or green-locked), data rate (blue-3G, green-HD, or yellow-SD), and power on (green).

The MDA-55 can be used in places where space is a premium and at the same time get excellent performance with lower cost. It is designed for applications that require equalization, re-clocking and distribution for 3G/HD/SD SDI as per SMPTE 259 (SD), SMPTE 292 (HD), and SMPTE 424(3G).

Exceptional Technical Support

The MDA-55 is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.

Features

- DC Powered, Portable
- SMPTE 259M, 344M, 292M, & 424M

- Wall Adapter Power Supply Included
- Data Rate Indication

- Re-clocker Locked Indication
- Automatic Equilization and Re-clocking



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Serial Digital Input:

Number: One 75Ω BNC Connectors
 Signal Level: 800mV
 Return Loss: 2 dB
 Standards:
 Composite: 143 Mb/s
 Component: 177Mb/s,
 270Mb/s, 360Mb/s, 540Mb/s, 1.485Gb/s, or 2.97Gb/s

Input Cable Length Equalization:

SD: 750 feet @270Mb/s
 HD: 250 feet @ 1.485Gb/s
 3G: 150 feet@2.97Gb/s

Serial Digital Output:

Number of Outputs: 4
 Connectors: BNC
 Standards: Same as input
 Impedance: 75 Ohms
 Signal Level: 800mV
 Overshoot: <8% of Amplitude
 Jitter Improvement: approximately 10%
 Propagation Delay:
 3G: 0.007 μs
 HD: 0.013 μs
 SD: 0.037 μs
 Additive Jitter:
 SD: 30 Ps {p-p} (typical)
 3G/HD: 10 Ps [p-p] (typical)

Front Panel LEDs:

Lock Detect: Red/Green LED
 3G/HD/SD: Blue/Green/Yellow LED
 DC Power: Green LED

Environmental:

Temperature: 0° to 50° C Ambient
 Humidity: 10% to 90% non-condensing
 Power: 5 VDC @ 4.2 Watts

Mechanical:

Height: 1 Inch
 Width: 5.5 Inches
 Depth: 9.25 Inches
 Weight: 2 Lbs. 7 Oz.



The manufacture reserves the right to change specifications without notice

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