

MSC Distribution Amplifiers

3G/HD/SD SDI 1x4 to 1x16



An exceptional range of extremely high quality products

Hamlet is very pleased to offer these excellent HD / SDI distribution amplifiers from MSC, they combine exceptional performance with value. The compact size of these distribution amplifiers allow them to be located in spaces where rack space is limited.

The MSC-HDDA4 and MSC-HDDA16 include 143MBPS, 270MBPS / 1.484GBPS Auto Rate Detection with "Power OK", "Lock" and "HD"

indicators. The MSC-HDDA4G3 and MSC-HDDA16G3 add 2.97GBPS 1080P 60Hz to the Auto Rate Detection system. The MSC-AES/SPDIF4 is specifically designed for 75 ohm digital audio distribution. It features a wide range input circuit, which will accept any level from 100MV P-P up to 5V P-P to produce four individually buffered 1V P-P outputs. The MSC-SDI/ASI incorporates the same 1,000 foot automatic cable equalizer circuit used in the HD distribution amplifiers coupled to four in phase independent output drivers. In addition to providing the required ASI phase to all outputs, the MSC-SDI/ASI is a very cost effective product for applications that are SDI and not HD.

All external connections are on one edge, which makes for a neater installation. These Matrix Switch Corporation HD / SDI distribution amplifiers include front edge indicators for power on, HD detected and Re-clocker lock indication. The 16 output MSC-HDDA16 HD-SDI Distribution Amplifier is a unique device. By combining a single HD-SDI input equalizer and multi-rate re-clocker with a transparent fan-out to 16 identical outputs, the MSC-HDDA16 can be used in place of five separate four out HD-SDI Distribution Amplifiers with better performance and lower cost.

If separate Distribution Amplifiers are cascaded, each Distribution Amplifier adds unwanted jitter. And because each amplifier has equalization and re-clocking, the outputs from different amplifiers will have different characteristics. MSC-HDDA16 HD-SDI Distribution Amplifier would be an excellent choice for distributing reference signals throughout a facility of any other HD SDI source that needs to be the same in many places. Two MSC-HDDA16 HD-SDI Distribution Amplifiers can be mounted in a 1RU space providing wide distribution of one or two HD-SDI signals to 31 or 32 destinations.

Features and Functions

- Compact size. Less than 7 cubic inches
- Choice of models supporting four different data rate ranges
- Low power consumption. Less than 2W
- Automatic cable equalization
- Auto re-clock / bypass any rate from 10KBPS through 2.97GBPS
- Power, Lock and HD indicator lights
- All connectors on one edge for easy installation

See our website for applications

www.hamlet.co.uk

TECHNICAL SPECIFICATION

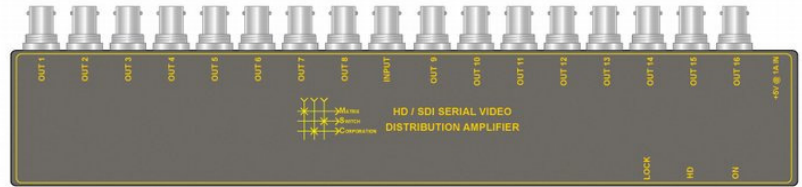
Input impedance: 75 ohms +/- 1%
 Input return loss: > -15 dB at 1.5GBPS > -12 dB at 2.97GBPS
 SDI HD DA Input level: 800mV P-P ±20%
 AES/SPDIF DA Input level: 200mV - 8V P-P
 Output impedance: 75 ohms +/-1%
 Output return loss: > -15 dB at 1.5GBPS > -12 dB at 2.97GBPS
 SDI HD DA Output level: 800mV P-P +/-5%
 AES/SPDIF DA Output level: 1V P-P +/-5%
 HD (1.483 - 2.97GBPS) cable equalization:
 175m for Belden type 1694A cable at 1.5GBPS
 100m for Belden type 1694A cable at 2.97GBPS
 AES/SPDIF DA input cable: Up to 200m
 SDI/HD DA Embedded audio: Clean pass through

WARRANTY: - 1 Year.

Extendable free on registration: - To 2 Years

By using the service area of our web site

<http://www.hamlet.co.uk/support/warranty/>



Devices in the Range

MSC-AES/SPDIF4	1in	4out	10KBPS-20MBPS
MSC-SDI/ASI4	1in	4out	20MBPS - 270MBPS
MSC-HDDA4	1in	4out	270MBS 1.484GBPS
MSC-HDDA4G3	1in	4out	270MBPS 1.484GBPS 2.97GBPS
MSC-HDDA16	1in	16out	270MBS 1.484GBPS
MSC-HDDA16G3	1in	16out	270MBS 1.484GBPS 2.97GBPS
MSC-DA16RA			Rack adapter for two MSC-HDDA16's (two DA's in 1RU)
MSC-PS-54			5V 4A 90-230VAC power supply

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Hamlet products are Manufactured to ISO9001.2000 and ISO14001 specification.

Our most up to date information is available on our web site.

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