



HD/SDI Distribution Amplifiers 1x4 to 1x16

Matrix Switch Corporation HD / SDI distribution amplifiers combine exceptional performance with both value and compact size. All models include 143MBPS, 270MBPS / 1.484GBPS Auto Rate Detection with "Power OK", "Lock" and "HD" indicators. The compact size of these distribution amplifiers allows them to be located in spaces where rack space is limited.

Both the MSC-HDDA4 and the MSC-HDDA16 have all external connections on one edge, which makes for a neater installation. Both of these Matrix Switch Corporation HD / SDI distribution amplifiers have 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 reclocker with a transparent fanout 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 reclocking, 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.



Available Models

Model #	Inputs	Outputs	Description	Price
MSC-DA16RA	---	---	Rack adapter for two MSC-HDDA16's (two DA's in 1RU)	\$125
MSC-HDDA4	1	4	---	\$300
MSC-HDDA16	1	16	---	\$850

Specifications

Input impedance	75 ohms +/- 1%
Input return loss	> -15 dB at 1.5GBPS
Input level	800mV P-P ±20%
Output impedance	75 ohms +/- 1%
Output return loss	> -15 dB at 1.5GBPS
Output level	800mV P-P +/- 5%
SDI (143 - 540MBPS) cable equalization	350m for Belden type 1694A cable
HD (14.83 - 1.48GBPS) cable equalization	175m for Belden type 1694A cable
Jitter	<0.2UI P-P

