12X1 ANALOG VIDEO/STEREO AUDIO SWITCHERS

SYNCHRONOUS VERTICAL INTERVAL SWITCHER

The 12X SV is designed for switching up to 12 inputs of composite video and balanced stereo audio signals. All synchronous inputs have vertical interval switching, and an RS-232/RS-422 serial control port is included. This switcher is value engineered for the best combination of price, performance, and reliability. Packaged in a 1 RU housing, the 12X SV switcher is ready to rackmount or be used in stand-alone applications.

NON-SYNCHRONOUS SWITCHER

The VSS12 provides simple, inexpensive switching for monitoring functions

FEATURES

- Highly reliable, simple, and inexpensive
- 12x1 input/output
- Synchronous or non-synchronous

MODELS

12XSV (synchronous)

VSS12 (non-synchronous)

Sigma Electronics, Inc. • 1027 Commercial Avenue • East Petersburg, PA, 17520 Phone: 1-717-569-2681
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SPECIFICATIONS

AUDIO

Input/Impedance	66 KΩ, balanced
Bandwidth	150 kHz
Input Level	+24 dBm, maximum (12XSV)
Output/Impedance	150Ω balanced (12XSV) 300Ω balanced (VSS12)
Output Level	+24 dBm, maximum
Frequency Response	±0.1 dB to 25 kHz; ±0.5 dB to 100 kHz
Hum and Noise	<-95 dB at 1 kHz (12XSV) <-95 dBm balanced 22 kHz low pass filter, input terminated
THD	0.007% at +24 dBm
Crosstalk	<-95 dB at 1 kHz
Gain Accuracy	<±0.2 dB
Common Mode Rej.	>40 dB balanced (VSS12)
Connectors	Screw terminals

POWER

Voltage Range	115VAC or 230VAC, 50/60 Hz (specify with order)
Power Consumption	8 watts, maximum

MECHANICAL

Dimensions	1.70" H x 19" W 4" D

VIDEO

Input/Impedance	75Ω Terminated
Coupling	AC (VSS12)
Input Level	1.4V p-p maximum (12XSV)
Input Return Loss	>40 dB to 5 MHz
Output/Impedance	75Ω source terminated
Output Level	1.4V p-p maximum (12XSV)
Frequency Response	±0.1 dB from 1 to 20 MHz
Bandwidth	120 MHz minimum at -3 dB
Gain Accuracy	<±1%
Hum and Noise	<0.1 mVrms (-80 dB), 10 MHz bandwidth
Differential Phase	<0.1°
Differential Gain	<0.2%
Crosstalk	<-55 dB to 5 MHz, input under test term., all other channels driven
All Linear Distortions	<0.5% (VSS12)
DC Offset	<±100 mV (VSS12)
Connectors	BNC

SYSTEM CONTROL INTERFACE (12XSV ONLY)

Data Trans. System	RS-232 and RS-422
Protocol	Simple ASCII
Sync Reference	Output Video
Connectors	9 pin "D" for serial port

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