

# SN-4100A

**Affordable Easy to Use  
VGA and Stereo Audio Switcher**

# FSR

**Video Products Group**

SN-4100A



## DESCRIPTION

The SN-4100A is a 4 input to 1 output high resolution VGA switcher that provides balanced stereo audio switching with audio following video.

The SN-4100A is ideally suited for stand alone use or as an upstream switcher for a stand alone scaler or a scaling switcher. The SN-4100A could also be used to route 4 high resolution signals to a down converter.

At 1 RU in height, and 1/2 rack wide, the SN-4100A is easy to install and does not require an excessive amount of space. All connections are on the back of the unit using HD-15's for VGA and 5 position plug-gable Phoenix connectors for stereo balanced audio.

Control of the SN-4100A is available on the front panel through 4, large, easy to see push buttons with an LED that illuminates for the selected input. The SN-4100A also provides a contact closure interface, with lamp feedback, for remote control or to interface to an AMX or Crestron system.

As with all FSR products, the SN-4100A includes all of the necessary accessories for use and installation. The SN-4100A ships with a power supply, manual and a full width rack mount kit with removable blank.

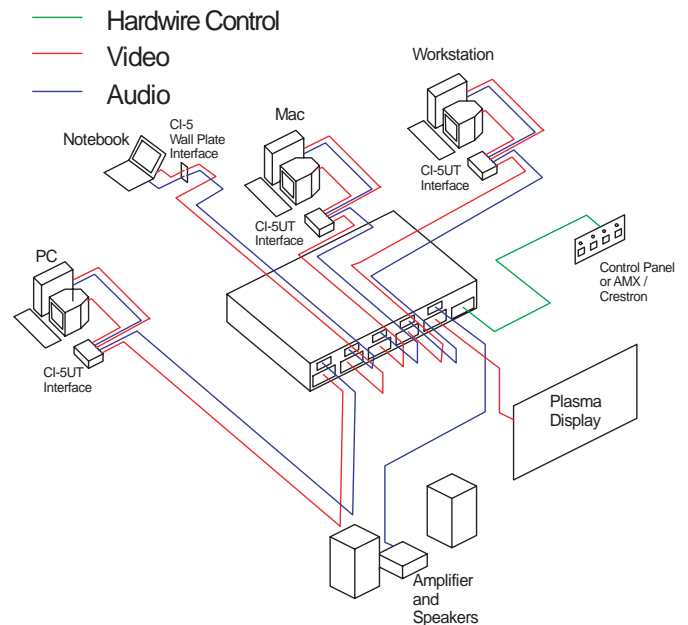
## FEATURES

- Affordable
- Ultra High Bandwidth
- Easy to Use
- Stereo Audio

## APPLICATIONS

- Classrooms
- Boardrooms
- Houses of Worship
- Rental and Staging

## SN-4100A System Diagram



## FSR Inc.

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# TECHNICAL SPECIFICATIONS

## AUDIO

Bandwidth: 20Hz to 20 kHz (+/- 0.1dB)  
THD + Noise: 0.03% @ 20 kHz at rated Max Output S/N > 98dB  
Noise floor: < 90dBm  
Stereo separation: -85dB @ 1kHz  
Gain: 6dB

## AUDIO INPUTS

Number / type: 4 stereo balanced (may be used with unbalanced sources)  
Connectors: 5 Position pluggable screw terminal  
Impedance: 20K ohms balanced  
Max level: +6dBm

## AUDIO OUTPUT

Number / type: 1 Balanced Stereo  
Connector: 5 Position pluggable screw terminal  
Impedance: 50 ohms  
Maximum Level: 600 ohms: +12dBm Balanced / +6dBm Unbalanced  
Hi - Z : +14dBm Balanced / +8dBm Unbalanced

## VIDEO INPUTS

Type: HD-15 Female (x4) standard VGA style  
Impedance: 75 ohms  
Level: 1 volt p-p nominal, +/-1.5 volt max  
VSWR: <1.2 @ 200 MHz typical  
Isolation: -40dB @ 350 MHz typical off channel isolation

## VIDEO OUTPUT

Type: HD-15 Female (x1) standard VGA style  
Impedance: 75 ohms  
Gain: unity into 75 ohm load  
Offset: 15 mV max  
Bandwidth: 350 MHz  
Flatness: 0.25dB to 250 MHz  
VSWR: <1.2 @ 190 MHz

## CONTROL I/O

Type: "Hardwire" via contact closure and lamp feedback  
Connector: DB-9 Female (no RS-232 serial port)  
Switch input: Normally open momentary inputs  
Lamp Tally Output: 5 VDC @ 15 MA. Current limited LED outputs (latched)

## POWER REQUIREMENTS

9 volts @ 400 mA (AC or DC).  
A 9 VAC @ 1 AMP power adapter is included with two pin Molex disconnect.

Specifications are subject to change without notice.

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## SYNC INPUTS

Impedance: 470 ohms  
Type: TTL high noise immunity  
Level: 1.9 volt minimum

## SYNC OUTPUT

Impedance: 75 ohm  
Level: 5 volts into Hi-Z, 2.4 Volts into 75 ohm load  
Rise / Fall Time: 0.8 nS  
Propagation Delay: 17nS

## MOUNTING

Standard 19" Rack Mount Kit included

## DB-9 Control I/O Pinout

PIN	FUNCTION
1	SWITCH 1 INPUT
2	SWITCH 3 INPUT
3	LAMP 1 OUTPUT
4	LAMP 3 OUTPUT
5	GROUND
6	SWITCH 2 INPUT
7	SWITCH 4 INPUT
8	LAMP 2 OUTPUT
9	LAMP 4 OUTPUT