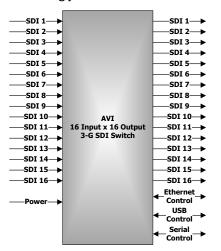


16X16 3-G SDI Video Switch

Overview

The AVI 16x16 (16 input by 16 output) 3-G SDI Video Switch is a small, lightweight, rugged, stand-alone unit that switches any 16 SD, HD, or 3-G SDI video input port signals to any or all SD, HD, or 3-G SDI output ports. The low latency, non-blocking switch allows 3-G SDI video inputs to be dynamically routed to any or all of the switch's outputs.

Measuring just 10 x 6 x 1.8 inches and under 3.2 pounds, AVI's



switch packs a lot of capability into a small and rugged product. The inputs on the S000116 automatically detect and lock onto all SMPTE 259M, 292M, 274M, 296M, and 425M SDI signals and are completely independent. Highquality input equalizers

provide up to 200 meters of 3-G SDI cable equalization on Belden 1694A cable. All outputs are also independent and reclock on output for maximum output cable length. With AVI's 3-G SDI switch, mission operators can view any sensor video at any time on their display while still routing video to other subsystem devices.

The S000116 provides convenient and flexible methods for both control and configuration of the unit, including Ethernet, USB, RS-232, RS-422 and RS-485 interfaces. Configuration and control of the switch is easily accessed by the user via Ethernet from any PC or Laptop connected to the same network as the switch. Control can be easily embedded in customer's systems for seamless integration.



Stand-alone or in combination with various AVI system components, AVI's rugged 16X16 3-G SDI switch offers a high performance solution for routing SDI video. Now all sensors and mission video sources can be used, maximizing the capability of the mission system.

Standard Features

- 16 HD, SD, and/or 3-G SDI Inputs
- 16 HD, SD, and/or 3-G SDI Outputs
- Inputs auto detected
- SMPTE 259M, 292M, 274M, 296M, and 425M compliant
- Simple plug-and-play functionality
- Comprehensive switch configuration program
- 9 36 V DC Power
- MIL-STD 38999 circular power, I/O, and Ethernet connectors
- Space-saving and industry standard HD BNC video connectors
- Standard three year warranty

Benefits

- Dynamic routing of 3-G SDI video
- Lowers platform installation and cabling costs
- Lowers platform cabling weight and complexity
- Lowers platform cost of ownership platform does not need to be re-cabled when sensors or order devices change
- Open works with any SDI source/sink device
- Available in 16X16 or 8X8 channel versions

Typical Applications

- Surveillance systems
- Airborne Law Enforcement, Customs and Boarder Protection
- Naval, Air Force, and Coastguard mission systems
- Ground Vehicle sensor mission systems
- Mobile Broadcast systems



16X16 3-G SDI Video Switch - Specifications

Video Inputs	• 16 SD, HD, or 3-G SDI Connector type – HD BNC 75 Ω	Model Numbers	• S000116-00 16X16 switch • S000108-00 8X8 switch		
Video Outputs	• 16 SD, HD, or 3-G SDI • Connector type – HD BNC 75 Ω • Re-clocked • 10 bit, 4:2:2 color encoding	Functionality	 Non-Blocking asynchronous digital matrix cross-point switch Input video format auto detection 16 preset configurations Control and configuration program included AVI Open Command Protocol software control Control Interface – Ethernet, USB, RS-232, RS-422, RS-485 		
Video Input and Output Formats	• 3G – SMPTE 425M	Environmental DO-160 Tested	 Operating Temp Low Operating Temp High Short Term Op Temp Low Short Term Op Temp High Ground Survival Low Temp Ground Survival High Temp Temp Variation Humidity Operational Shock & Crash Vibration EMI/EMC Voltage Spike Waterproofness Ingress Rating Altitude Operating 	-40°C / -40°F +85° C / +185°F -45°C /-49°F +85° C / +185°F -55°C /-67°F 0 +85C° /+185F° 5C° per minute 0 to 95±4% @ 50C°	DO-160G Cat B4 DO-160G Cat B DO-160G Cat A DO-160G Cat A
Power	 +9 to +36 DC 0.8 amps @28V DC (all channels active) Connector Type MIL-STD D38999/20MB98PN 	Dimensions and Weight	• 256 mm [10.1 in] W, 156 mm [6.1 in] D, 45 mm [1.8 in] H • 1.412 kg [3.12 lb]		

