

## Aspen 1616HD-3G

16x16 3G HD-SDI Router



## HD-SDI Video Features

- Guaranteed 3G Bandwidth - Fully Loaded.
- Max Data Rate - 2.97Gbps.
- Multi-Standard Operation - SDI (SMPTE 259M & SMPTE 344M), HD-SDI (SMPTE 292M), 3G HD-SDI (SMPTE 424M) and dual link HD-SDI (SMPTE 372M).
- Advanced Equalization - Allows recovery of signals at over 155 meters at 3Gb/s, over 200 meters at 1.5Gb/s
- Reclocking & EQ Control - Reclockers and Equalizers can be turned on or off on a per port basis to allow non-SMPTE data such as MPEG-2 to pass through. - Input Equalization - Per input. - Re-Clocking - 5 modes: auto, bypass, 3G HD-SDI, HD-SDI & SD per input.

## Sync Features

- Looping Sync Input - Composite or Tri-sync.

## Control Features

- Front Panel XY Control (1616/3232HD-3G) - Multi-color I/O & function buttons.
- Built-in Web Control Interface -
  - Configuration and Set up - including Names, Salvos, Layers, Output Reclockers, Input Equalizers and more.
  - Touch and Click compatible for control via tablets or smartphones
- RS-232, RS-422 & Ethernet.
- Optional Remote Control Panels - Via RJ-45 (Ethernet).
- Supports TCP/IP Protocol - Rear Panel RJ-45 connector.

## Other Features

- 7 Year warranty - Parts and Labor
- Take - The Take button executes a selected function when pressed (switch, salvo recall, IP address change, etc.).
- Salvos - Memory locations of switching lists that are saved in the router and recalled by a single command.
- Low Power Consumption: - No cooling fans required on 1616HD-3G and 3232HD-3G
- Worldwide Power Supply - 110-240V AC to 12V DC (external).
- Redundant External Power Supply - Optional.
- Standard 19" Rack Mount Size - 1U (1616HD3G) & 2U (3232HD3G) & 4U (7272HD-3G). 2.5" deep.

# Aspen 1616HD-3G

## TECHNICAL SPECIFICATIONS

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### HD-SDI Video

Data Rates	19Mbps to 2.97Gbps.
Data Types	SMPTE 259M-C, SMPTE 292, SMPTE 424M & DVB-ASI.
Cable Equalization	3G: 0 - 500' (155m) HD: 0 - 650' (200m) SD: 0 - 1,200' (400m) (Using Kramer BC-RG63G or Belden 1694A)
Return Loss	≥15db @ 1.485Gbps ≥10db @ 2.97Gbps
Level	800mV p-p +/- 10%
Timing Jitter	SMPTE 424M ≤2.0UI SMPTE 292 ≤1.0UI SMPTE 259M-C ≤0.2UI
Alignment Jitter	SMPTE 424M ≤0.3UI SMPTE 292 ≤0.2UI SMPTE 259M-C ≤0.2UI
Return Loss	≥15db @ 1.485Gbps ≥10dB @ 2.97Gbps

### Control Features

Front Panel	XY control on 1616HD-3G and 3232HD-3G
Web Browser	Advanced Web browser interface for set up and control. Touch and Click compatible.
Ethernet	10/100 Base-T (RJ-45)
Serial	RS-232/422 (DB-9)

### General

I/O Correctors	75 Ohm BNC
Dimensions	1616HD-3G - 1U: 1.75" (45mm) x 19" (483mm) x 2.5" (64mm) 3232HD-3G - 2U: 3.5" (89mm) x 19" (483mm) x 2.5" (64mm) 7272HD-3G - 4U: 7.0" (178mm) x 19" (483mm) x 2.5" (64mm)
Operating Temp	32°-104°F (0°-40°C)
Weight	1616HD-3G: 2 lbs (0.9kg) 3232HD-3G: 4 lbs (1.8kg) 7272HD-3G: 7 lbs (3.2kg)
Power	1616HD-3G: 110-240V AC, 50/60Hz, 18W to 12V DC (external) 3232HD-3G: 110-240V AC, 50/60Hz, 30W to 12V DC (external) 7272HD-3G: 110-240V AC, 50/60Hz, 55W to 12V DC (external)

## CONFIGURATIONS

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Model	Description
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Options	
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RPS-16/32	Redundant Power Supply for Aspen 16 & 32 Models