

Jaguar

64x64 Routing Switcher

"...comprehensive cost effective mid-range solution"

AUDIO/VIDEO Router

OVERVIEW

The Jaguar family of 64x64 routing switchers is available in analog video, digital video, analog audio and digital audio versions. These reliable switchers are recommended for studio, mobile production, central office, and multimedia display applications.

Each Jaguar video matrix is housed in a 6 RU chassis. Audio frames require only 5RU. These compact chassis designs support single or dual internal controllers, and internal power supplies. Output monitoring is an option on all models.

- **64x64 video matrix in 6RU; audio matrix in 5RU**
- **125MHz analog video std., 250MHz opt.**
- **SMPTE 259M**
- **Two channel analog or dual AES/EBU digital audio**
- **RGB, RGBS and Y/C versions**
- **Internal controllers and power supplies**



Jaguar Video
6RU Chassis



Jaguar Audio
5RU Chassis

VIDEO MODELS

The Jaguar analog video switchers can handle any production or presentation requirement. This high performance router offers 125MHz bandwidth performance as standard, with 250MHz available as an option. The Jaguar can be delivered in RGB, RGBS and Y/C configurations. All video inputs are terminated and capable of handling input levels up to 2.0V p-p. Two outputs per bus are provided.

Digital video switchers support data rates from 143Mb/s to 360Mb/s for use with SDI and SDTI applications. The input equalizer automatically compensates for up to 240 meters of Belden 8281 at 270Mb/s data rates, and 150 meters of cable at 360Mb/s. Auto reclocking on outputs is standard. Two outputs per bus are provided.

AUDIO MODELS

The Jaguar audio switcher is available in both analog and digital versions. The two channel analog router uses electronically balanced inputs and outputs for improved slew rates and lower distortion over comparable transformer coupled circuits. The digital audio router provides dual AES/EBU switching levels. All input and output connections are made with individual 3-pin, 2 part detachable plugs for easy installation and maintenance.

CONTROL AND RELIABILITY

The Jaguar is compatible with the PESA 3500/3500PLUS controllers. Single or dual cards can be installed in the switcher chassis, saving valuable rack space. The PESA 3500/3500PLUS controller provides a user-friendly graphical interface compatible with 32 bit Microsoft® Windows® environments. A wide range of cost effective RCP series control panels are available. The controller also includes RS232/422 connections for third part control applications.

All Jaguar matrix circuit cards can be installed "hot," allowing system expansion or servicing to be performed without powering down the matrix. Board level voltage regulation eliminates the possibility of a central, single point power failure.

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Analog Video Specifications

Inputs
 Impedance 75 Ohm
 Return loss >40dB to 5MHz, >15dB to 125MHz
 Normal level 1V P-P
 Maximum level 2V P-P
 (without obvious distortion)

Outputs
 Number of outputs per bus 2
 Impedance 75 Ohm
 Normal level 1V P-P
 Maximum level 2V P-P (without obvious distortion)
 Frequency response <+0.1dB @ 10MHz
 <+0.5dB @ 35MHz
 <+1.0dB @ 60MHz
 -3dB @ 125MHz
 +2dB, -3dB @ 250MHz (wideband only)
 Crosstalk <-60dB to 5MHz (all inputs & outputs hostile)
 <-35dB @ 35MHz
 <-15dB @ 125MHz
 Differential gain 0.1% @ 4.43MHz
 Differential phase 0.1 deg. @ 4.43MHz
 Gain Unity
 S/N ratio -73dB (Low pass to 5MHz std. B, C, G, H, I, or 4.2MHz std. M)

Digital Video Specifications

Inputs
 Impedance 75 Ohm internally terminated
 Return loss >15dB 5MHz to 270MHz
 Standard SMPTE 259M
 Equalization Automatic: 240 meters to 270Mbit/s,
 150 meters to 360Mbit/s

Outputs
 Number of outputs per bus 2
 Impedance 75 Ohm BNC
 Return loss >15dB 5MHz to 270MHz
 Signal amplitude 800mV +10%. Terminated into 75 Ohm
 DC offset +0.5V, Terminated into 75 Ohm
 Rise/fall times 0.6ns +100pS (20% to 80%),
 Terminated into 75 Ohm
 Timing or alignment jitter <0.2ui p-p
 Standard SMPTE 259M

Analog Audio Specifications

Inputs
 Level +28dBm max.
 Impedance ≥60K Ohms
 Common mode rejection ratio -80dB
 (50Hz to 60Hz)

Outputs
 Level +28dBm into 600 Ohms
 Impedance <67 Ohms
 Type Electronically balanced
 Minimum load @ 28dBm 600 Ohms
 Gain Settable to ±0.1dB
 Total harmonic distortion <0.1% @ 28dBm,
 20Hz to 20KHz w/ 30KHz filter
 Crosstalk <-92dB, to 20Hz to 20KHz
 (All inputs & outputs hostile)

Hum & noise
 Wideband 10Hz to 300KHz <-73dBm
 80KHz low pass filter <-78dBm
 30KHz low pass filter <-86dBm
 15KHz low pass filter <-89dBm
 "A" weighted <-90dBm

Digital Audio Specifications

Inputs
 Impedance 110 Ohms, ±20% from 0.1MHz to 6 MHz,
 terminated
 Signal amplitude 0.2V-7V P-P

Outputs
 Impedance 110 Ohms, ±20% from 0.1MHz to 6MHz
 Signal amplitude 2V-7V P-P (Terminated into 110 Ohms)
 Rise/fall times 5-30nS
 Jitter <+20nS
 Standard AES3-1993
 Data rate DC to 20Mbit/s

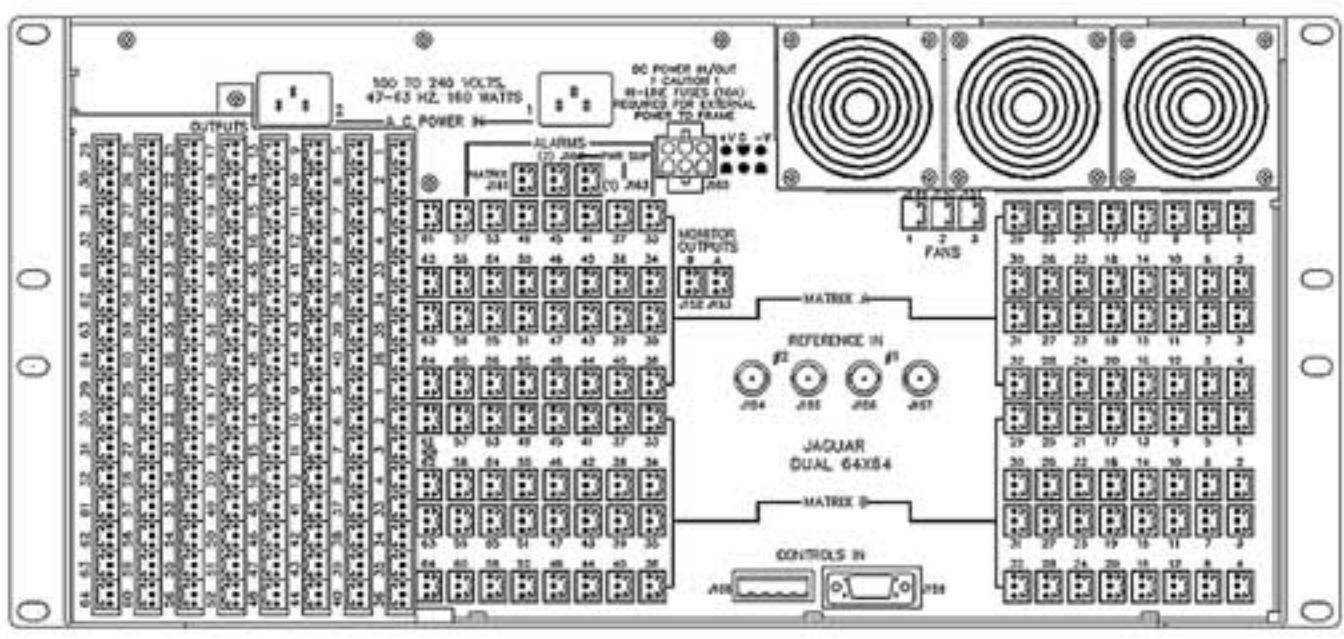
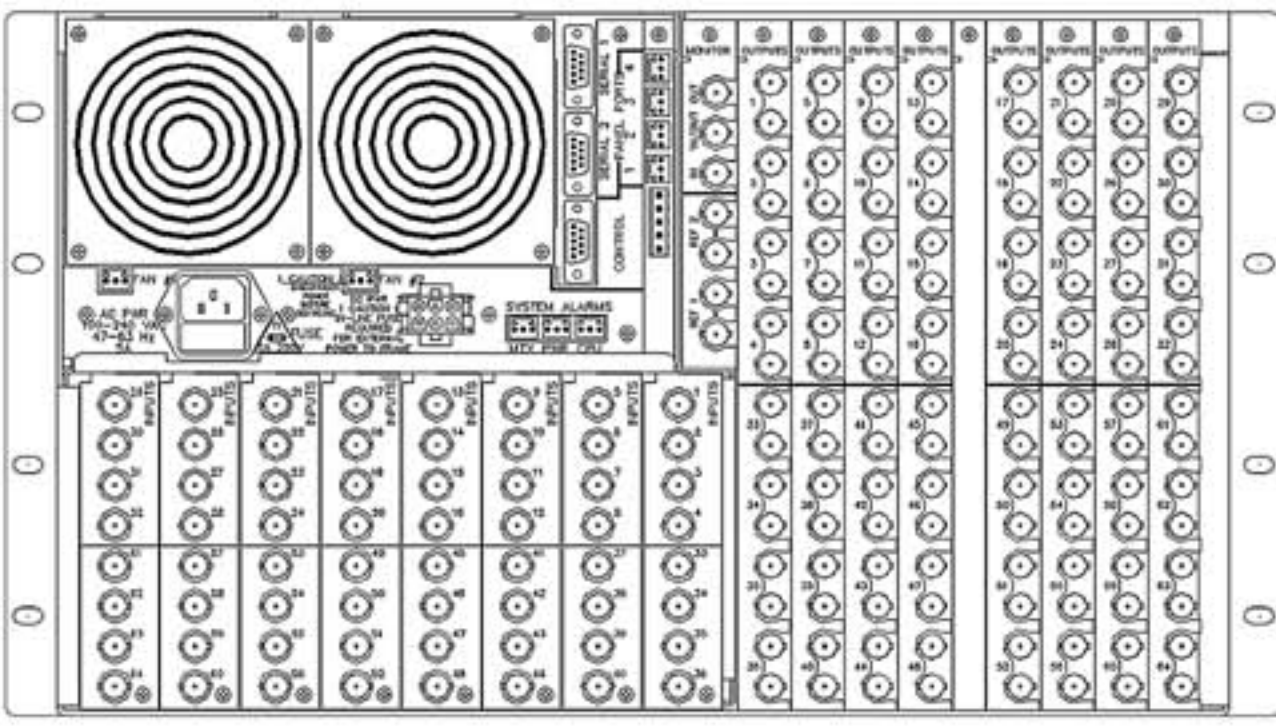
General Characteristics

Power
 Auto Range (DV, AA, DA)
 90-260VAC, 47Hz-63Hz

Mechanical
 Dimensions (Video Frame) 6RU; 10.5"H x 19"W x 18"D
 267mm x 483mm x 457.2mm
 (Audio Frame) 5RU; 8.5"H x 19"W x 18"D
 222mm x 483mm x 457.2mm

Weight
 60 lbs/27kg (Video Frame)
 34 lbs/15.3kg (Audio Frame)

Rear Views



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