



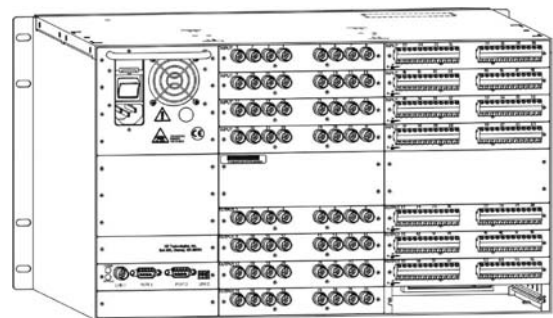
APOLLO Matrix Routing Switcher

- Matrix I/O ranges from 8x8 to 64x64, configurable by 8 inputs or outputs per signal type
- Video bandwidth options of 40 MHz, 250 MHz, and 400 MHz
- Composite video, Y/C , component video, HD component video (up to 1080p)
- RGB, RGBS and RGBHV
- Digital video and digital audio, up to 360 Mb/s
- Switch different signal types in combination
- Local or remote control option
- Disconnect any crosspoint from the front panel or via serial control
- Switch any input to any or all outputs in any combination
- Up to 64 user-definable presets
- Matrix control and scheduling software under Windows
- R S-232/R S-422 control
- Supports balanced and unbalanced audio devices concurrently
- Vertical interval switching option

The APOLLO Matrix Routing Switcher features a fully modular architecture allowing configurations as small as 8x8, up to a full 64x64 matrix.

KEY APPLICATIONS:

- Simulation
- Command & Control
- Executive Briefing



RGB SPECTRUM®
a visual
communications
company™



Corporate Headquarters
950 Marina Village Parkway
Alameda, California 94501
TEL: (510) 814-7000
FAX: (510) 814-7026
WEB: www.rgb.com
e-mail: sales@rgb.com

European Headquarters
La Clairiere, Chemin des Abeilles
Quartier De Malouesse
Luynes Aix en Provence 13080 France
TEL: (33) 442 240884
CELL: (33) 607 247428
e-mail: philipd@rgb.com

General

AC Power:	100-240 VAC
Maximum Power Consumption:	47-63 Hz, 170 Watts maximum per enclosure
Operational Temperature:	32° to 110°F (0° to 43°C)
Humidity:	0 to 90% non-condensing
Enclosure Dimensions:	13.50" (34.29 cm) Depth 17.50" (44.45 cm) Width without rack ears 19.00" (48.26 cm) Width with rack ears 10.37" (26.34 cm) Height (6 r.u.)
Weight:	17 lbs (7.73 kg) per enclosure
Input/Output Range:	8x8 to 64x64, configurable by 8 inputs or outputs
Communications:	RS-232, RS-422
Approvals:	CE, UL
Signal Types:	RGB, RGBS, RGBHV, Audio (mono, stereo, and multi-channel), Composite (NT SC, PAL, SECAM), Y/C, YUV, HDT V, Serial Digital to 360 Mb/s, RS-232, RS-422

Audio

Throughput:	
Frequency Response:	<± 0.1 dB (20 Hz to 20 kHz)
T HD + Noise (T HD+N):	<0.01% (20 Hz to 20 kHz, Vin = -3.3 dBu to +13.2 dBu)
Crosstalk (Adjacent Channel):	<-95 dB (1 kHz, Vin = ±24V balanced)
Signal to Noise Ratio (SNR):	-103 dB (20 Hz to 20 kHz, Vin = +13.2 dBu)
Input:	
Maximum Level:	Common +19.4 dBu, differential +36.1 dBu
Impedance:	18 kW
Type:	Balanced or unbalanced
CMRR:	-90 dB typical, -70 dB minimum (20 Hz to 20 kHz, Vcm = ±10V)
Gain Adjustment Range (Optional):	-3 dB to +10 dB (Vin = 3V p-p)
Connector Type(s):	Disconnectable, 3 position screw terminal
Output:	
Maximum Level:	+28 dBu, balanced
Impedance:	50 W
Type:	Balanced or unbalanced
Gain Adjustment Range:	-3 dB to +10 dB
Connector Type(s):	Disconnectable, 3 position screw terminal

Standard Video

Throughput:	
Frequency Response:	±3 dB to 40 MHz or better ±1 dB to 12 MHz or better
Differential Gain*:	0.1% or better (f = 3.58 MHz)
Differential Phase*:	0.1° or better (f = 3.58 MHz)
Crosstalk (Adjacent Channel):	<-60 dB (f = 5 MHz)
Propagation Delay:	<20 ns (Vin = ±0.5V)
Signal to Noise Ratio (SNR):	<-70 dB (Vin = 0.7V, 100% IRE)
*Performed with a standard five-step modulated staircase test signal	
Input:	
Maximum Level:	± 5V
Impedance:	75 W or Hi-Z (22 kW)
Gain Adjustment Range (Optional):	-3 dB to +10 dB
Connector Type(s):	BNC
Output:	
Maximum Level:	± 5V
Impedance:	75 W
Gain Adjustment Range:	-3 dB to +10 dB
Connector Type(s):	BNC

Video

Throughput:	
Frequency Response:	±3 dB to 250 MHz or better
Crosstalk (Adjacent Channel):	<-60 dB (f = 5 MHz)
Propagation Delay:	<20 ns (Vin = ±0.5V)
Signal to Noise Ratio (SNR):	<-70 dB (Vin = 0.7V)
Video Input:	
Maximum Level:	±2V
Impedance:	75 W or Hi-Z (22 kW)
Gain Adjustment Range (optional):	-3 dB to +10 dB
Connector Type(s):	BNC
Video Output:	
Maximum Level:	±2V
Impedance:	75 W
Gain Adjustment Range:	-3 dB to +10 dB
Connector Type(s):	BNC

Wideband

Frequency Response:	±3 dB to 250 MHz or better
Crosstalk (Adjacent Channel):	<-60 dB (f = 5 MHz)
Propagation Delay:	<20 ns (Vin = ±0.5V)
Signal to Noise Ratio (SNR):	<-70 dB (Vin = 0.7V)
Maximum Level:	±2V
Impedance:	75 W or Hi-Z (22 kW)
Gain Adjustment Range (optional):	-3 dB to +10 dB
Connector Type(s):	BNC
Maximum Level:	±2V
Impedance:	75 W
Gain Adjustment Range:	-3 dB to +10 dB
Connector Type(s):	BNC

Ultra Wideband

Frequency Response:	±3 dB to 400 MHz or better
Crosstalk (Adjacent Channel):	<-60 dB (f = 5 MHz)
Propagation Delay:	<20 ns (Vin = ±0.5V)
Signal to Noise Ratio (SNR):	<-70 dB (Vin = 0.7V)
Maximum Level:	±2V
Impedance:	75 W or Hi-Z (22 kW)
Gain Adjustment Range (optional):	-3 dB to +10 dB
Connector Type(s):	BNC
Maximum Level:	±2V
Impedance:	75 W
Gain Adjustment Range:	-3 dB to +10 dB
Connector Type(s):	BNC