

# AJA KUMO 1616-12G Compact 16x16 12G-SDI Router

## Video Format

- 270 Mbps, 1.5 Gbps, 3 Gbps, 6 Gbps, 12 Gbps SDI
- 270 Mbps DVB-ASI
- Format agnostic, 125 Mbps - 12 Gbps

## Video Input Digital

- 12G-SDI Inputs
- 16x 12G-SDI BNC, SMPTE-259/292/424/2081/2082

## Video Output Digital

- 12G-SDI Outputs
- Noninverting
- 16x 12G-SDI BNC, SMPTE-259/292/424/2081/2082

## Ancillary Data

- Passes all SDI embedded ancillary data including audio

## Salvo

- Up to 8 Salvos can be configured and saved in each KUMO router

## Cable Equalization

(Belden 1694A)

- 12 Gbps, up to 60m
- 6 Gbps, up to 120m
- 3 Gbps, up to 190m
- 1.5 Gbps, up to 195m
- 270 Mbps, up to 405m
- Automatic operation

## Reclocking

- 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, 5.934 Gbps, 5.940 Gbps, 11.868 Gbps, 11.880 Gbps - Auto Select
- All other rates are passed through and not reclocked

## Switching Modes

- Single, Dual, and Quad Link modes
- Switches in vertical blanking per SMPTE RP-168

## Control Panel Compatibility

- AJA KUMO CP - 1RU X-Y Ethernet control panel
- AJA KUMO CP2 - 2RU X-Y Ethernet control panel

## Reference Input

- External, 2x BNC
- Looping, nonterminating
- Blackburst or tri-level sync

## Network Interface

- 1x RJ-45, 10/100/1000 Ethernet
- Supports AJA KUMO Ethernet control panels, direct connect or networked
- Grass Valley Native Protocol
- Embedded web server for remote control

## USB Interface

- 1x Mini-USB for IP configuration

## Serial Interface

- 1x DB-9 Female, RS-422
- Grass Valley Native Protocol
- 9-pin D-connector pinout is as follows:



1	GND
2	TX-
3	RX+
4	GND
5	No Connection
6	GND
7	TX+
8	RX-
9	GND
Shell	GND

**Size (w x d x h)**

- 1RU - 17.4" x 1.54" x 1.75" (441.96 x 39.12 x 44.45 mm)

**Weight**

- 1.4 lb (0.7 kg)

**Power**

- 10-14VDC regulated, 13W typ, power supply required, included with purchase
- AC Adapter: 100-240VAC, 50/60 Hz, universal input

**Environment**

- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)