



# KUMO 6464-12G

KUMO 6464-12G is not available. Please see KUMO 3232-12G for 12G needs and the KUMO 6464 for 3G needs.

\$ US MSRP

<https://www.aja.com/products/kumo-6464-12g>

**Fully Redundant AC Power Supplies**  
Two independent 12VDC inputs provide safe operations. Power status can be checked from a LAN attached browser

**Reference Input with Loop Through**  
The Reference Input synchronizes the router switching point per SMPTE specifications. The Reference Input supports Blackburst for SD and tri-level sync for HD

**LAN Connection**  
RJ-45 10/100/1000 LAN Connector - internal web server, Bonjour support



**RS-422**  
RS-422 remote control via 9-pin D-conector with basic support for Grass Valley Native Protocol support

**USB Connection**  
USB port to easily configure the router IP address and simplify network configurations

**12G/6G/3G/HD/SD-SDI Inputs and Outputs**  
All inputs and outputs, 12G/6G/3G/HD/SD-SDI (SMPTE-259/292/424/2081/2082)

## Video Formats

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

## Video Input Digital

- 12G-SDI Inputs
- 64x 12G-SDI BNC, SMPTE-259/292/424/2081/2082

## Video Output Digital

- 12G-SDI Outputs
- 64x 12G-SDI BNC, SMPTE-259/292/424/2081/2082
- Noninverting

## 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 50m
- 6 Gbps, up to 90m
- 3 Gbps, up to 140m
- 1.5 Gbps, up to 200m
- 270 Mbps, up to 390m
- 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

## Switching Modes

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

## Control Panel Compatibility

- AJA KUMO CP (First 32 I/O in Single/Normal, all I/O in Dual or Quad mode) – 1RU X-Y Ethernet control panel
- AJA KUMO CP2 (Single/Normal, Dual or Quad mode) – 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
- Basic support for Grass Valley Native Protocol
- Embedded web server for remote control

## USB Interface

- 1x Mini-USB for IP configuration using AJA eMini-Setup

## Serial Interface

- 1x DB-9 Female, RS-422
- Basic support for 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)

- 4RU - 17.4" x 1.55" x 7.00" (441.96 x 39.37 x 177.8 mm)

## Weight

- 9.2 lbs (4.2 kg)

## Power

- External power supply required
  - Enclosure: Dual, redundant, 10-14VDC regulated, 4-pin Molex, 50W typical, 72W max.
  - AC adapter, included: 100-240VAC, 50/60 Hz, universal input, 84W
  - Optional redundant AC adapter sold separately, KUMO-84W-PWR

## 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)