The control panels shown with routers are for illustration purposes only and are priced separately.

Key Features

- 16x1, 8x8, 8x16, 16x16 and 32x32
- Hot-swappable front-loading modules and power supplies
- Redundant power supplies available
- Flexible Ethernet, coax-based control
- Wide range of local or remote control panels
- Versatile RS232 interface

The RJM and Associates INNOVATION series of compact analog routing switchers is designed for the most demanding broadcast and professional users. Redundancy, reliability, and flexibility make these switchers ideal for critical path operations. The clean design reduces the number of potential failure points, and the full three-year warranty guarantees a long, effective life.

Based on rugged frame structures, each system has cells for optional back-up power supplies. All signal board cells in the frames are fully compatible with analog signal formats, making field upgrades simple and cost effective.

Each router package includes a set of analog boards and universal power supplies. All boards can be added or exchanged while the equipment is in service, minimizing down time and increasing flexibility.

The Ethernet-based control architecture supports up to 32 control panels via a single coax line. The control system includes an RS232 interface with a very flexible protocol, allowing the interface to external controllers specific to the needs of the installation.
### Typical Analog Video Specifications

**Video inputs:**
- Inputs: 8, 16 or 32
- Impedance: 75Ω terminating
- Coupling: DC
- Connector type: BNC
- Return loss: 40dB at 3.58 or 4.43mHz
- Level: 1V p-p nominal, 2V p-p maximum

**Video outputs:**
- Number: 4 on 16x1 and 1 per bus on 8x8, 8x16, 16x16 and 32x32
- Connector type: BNC
- Impedance: 75Ω, source terminated
- Return loss: 35dB at 3.58 or 4.43mHz
- Level: 1Vp-p nominal, 2Vp-p maximum

**Performance:**
- Gain: Unity ±0.1 dB
- Gain adj range: ±2dB, On the 16x1 only
- V.I. switching: Line 6 (NTSC)
- Diff Gain: 0.1% 10 to 90% APL @ 3.58mHz and 4.43mHz
- Diff phase: 0.1° 10 to 90% APL @ 3.58mHz and 4.43mHz
- Freq response: ±0.1dB to 5kHz, -3dB bandwidth to 50mHz
- Crosstalk isolation: 62dB to 5kHz worst case
- Propagation delay: 5ns typical
- In/In phase scatter: ±0.5%
- In/In gain scatter: ±0.05% ref unity
- DC offset: <25mV
- SNR: -73dB, 5mHz bandwidth, 0.714Vp-p video to RMS noise

### Typical Analog Audio Specifications

**Audio inputs:**
- 8 or 16 dual (stereo) channels
- Connector type: Removable three pin Weco connector
- Impedance: 20kΩ
- Signal Level: +26dBu, maximum
- CMRR: 60dB to 1KHz

**Audio outputs:**
- Number: One dual (stereo) on 16x1 and one dual (stereo) per bus on 8x8 and 16x16
- Connector type: Removable three pin Weco
- Impedance: <30Ω
- Signal type: Balanced
- Level: +26dBu, maximum

**Performance:**
- Freq response: ±0.1dB to 20kHz, ref 1kHz
- Crosstalk: 90dB @ 10kHz, worst case
- DC offset: <50mV
- SNR: <100dB, 20Hz to 20kHz
- IM/THD: < 0.02%

### Electrical/Physical/Environmental:

**Electrical:**
- Input power: Switch selectable 90 to 130VAC or 200 to 265VAC.
- Frequency: 47 to 63 Hz.
- Consumption: 16x1 20VA max, 8x8 25VA max, 16x16 50VA, 32x32 80VA max.
- Compliance: UL listed, CE, FCC-Part 15 class B

**Physical:**
- Dimensions: 16x1, 8x8, 16x16 housed in 1RU frame 32x32 in 2RU frame
- Weight: 16x1, 8x8, 16x16 - 9 lbs, 4.0 kg

**Environmental:**
- Operating Temperature.: 0 to 40° centigrade.
- Humidity: 90% non-condensing.