



RJM & Associates, LLC
Broadcast Solutions

Data Sheet

HD-212 2x2 Critical Path Changeover Switcher



Key Features

- Automatically adapts to SMPTE and ITU standards for HD/SDI and DVB/ASI data streams
- Input cable equalization up to 300ft (100M) of 1694A or equivalent cable
- Internal re-clocking
- All boards front loading and hot swappable
- Relay bypass protection of the 'A' input to main online output
- User selectable manual/auto and return to 'A' operation
- Front panel status indication and manual A/B selector
- 9 pin 'D' connector or optional Ethernet port for remote status and control monitoring
- Optional redundant power supply available

RJM & Associates expands critical path protection with the HD-212, a 2x2 HD/SDI protection/changeover switch.

The HD-212 detects signal presence on both its 'A' and 'B' inputs, and transfers to the offline input upon failure of the primary feed. The unit is ideal for use in network, transmitter inputs, or satellite and cable head end operations. It is fully compliant with all SMPTE and ITU serial digital video signals up to and including 1.4835Gbps.

The HD-212 is convenient to operate and monitor from local or remote locations. Optional redundant power supplies, front-loading, hot-swappable boards, and user-selectable operation parameters enhance critical path reliability.

A standard feature of the unit is relay bypass protection of the 'A' input to the main online output. Bypass occurs in case of power failure or processor board removal.

The return-to-'A' function provides for automatic return to the primary input signal upon its restoration.

The 1RU rack enclosure can house up to two processor boards and two power supplies. The processor modules operate completely independent of each other. They only share the power supplies and frame.

The optional Ethernet core processor is easily loaded onto the main processor board.

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HD-212

High-Definition 2x2 Critical Path Changeover Switcher

HD-212 Video Specifications	
Inputs:	
Number:	2
Input type:	75Ω, BNC per IEC 169-8
Signal level :	800mV ±10%
Return loss:	>13dB at 270Mb
Data rate:	270Mb or 1.485Gbps
Equalization:	Automatic >300 meters Belden 1694A @270Mb >100 meters Belden 1694A @1.485Gbps
Outputs:	
Number:	3 – On-line 1 – Off-line
Impedance:	75Ω, BNC
Signal level:	800mV ±10%
Return loss:	>15dB at 270Mb

HD-212 General Specifications	
Performance:	0 to 40 degrees centigrade
Operating:	0 to 50 degrees centigrade
Humidity:	90% non-condensing
Power requirements:	115/230VAC, 50/60 Hz, 20W
Size:	1.75" x 19" x 10"
Weight:	≈ 7 lbs 3 kg
Other:	
Jitter	HD – 125ps SDI – 150ps

HD-212 Block Schematic

