

KONDOR 2 | Digital Routing Switcher

Features

- ▶ Passive frame
- ▶ Redundancy
- ▶ 1.5 Gbit Bandwidth end to end
- ▶ 1.5 Gbit Matrix core
- ▶ Fully expandable
- ▶ Very high packing density, 144² in 12RU
- ▶ Analogue, SDI and HDTV together in the same frame
- ▶ Performance remains constant with size
- ▶ Status LEDs for alarms
- ▶ Replaceable I/O
- ▶ Very efficient dual 1000W power supplies
- ▶ Signal presence indicators for each input and output
- ▶ Universal 5RU frame
- ▶ Short signal path
- ▶ Futureproof design
- ▶ Energy optimised



Through the innovative use of proven technology, the Kondor 2 breaks the technological barriers in the broadcast industry by offering the users the ability to simply and economically move between the 270/360Mb/s domain of Serial Digital video signals into the world of 1.5Gb/s HDTV video processing. The Kondor 2 offers users the ability to mix and match SDI, HDTV and AES/EBU signals - all in the same high density rack frame, efficiently controlled by a dual CPU system housed in a 1RU frame. In addition, users can move from SDI to HDTV eight inputs/outputs at a time – all at nominal cost and minimal router down time.

The Kondor 2 maintains Talia's tradition of unique product design with an attractively designed universal 5RU rack frame designed for low power consumption and maximum thermal efficiency. Multiple frames may be stacked for large configurations.

A 5RU frame houses 25 modules including dual plug-in power supply modules (3 slots each). Alternatively, multiple frames may be joined together for large systems. The hinged front door houses the air filter for easy removal and cleaning. Master status LEDs on the front door warn of any alarm conditions, the source of

the alarm may be viewed by opening the door to reveal the individual status indicators on each module.

At the heart of the Kondor 2 is an advanced 1.5Gb/s matrix core. Using a proven chipset initially developed for the telecommunications industry, TALIA engineers have cleverly adapted this technology for the broadcast television industry. The flexibility of the Kondor 2 is the uniquely engineered architecture of replaceable 8-channel I/O cards and the innovative free-form backplane. The family of I/O cards can accept a wide range of both SDI, ASI (270/360Mb/s) and HDTV signals (1.5Gb/s) in either coaxial or optical fibre formats. The ever growing I/O options include PAL/NTSC encoded outputs, dual/single outputs and clocking/non-clocking outputs. The AES/EBU options offer inputs with synchronous clock rate conversion I/O, or more economical non-sync input cards which may be mixed in matrix. The I/O cards convert the signals to and from the internal balanced PECL (Positive Emitter Coupled Logic) domain suitable for switching at bit rates beyond 1.5Gb/s.

The Kondor 2 architecture is engineered with absolutely no active components fixed inside the frame, all active circuits are removed when modules are de-populated from the frame via the front extract, leaving behind only the rear cable and feed-through connectors. This has become a major design rule with Kondor 2 and has been followed strictly for all signal domains, resulting in a very easy to service router.

A 1RU fan system with front removable fan tray sits on top or bottom depending on cooling needs. The fan trays slide out for service and replacement while the system is operational! Three high efficiency fans draw air in through the filtered front door, through the power supplies, up through the cards, and exhausted via the back and sides. Other cooling options are available with systems made up with multiple frames.

A comprehensive range of soft key control panels provides a very flexible control system. Router configuration is achieved with Geneos, a comprehensive Windows GUI that has the ability to control the router from a PC as well as setting up the matrix and control panels. The Geneos control system also features resource management, tie-line management and virtual routing capabilities.

Input, Output and Matrix Modules

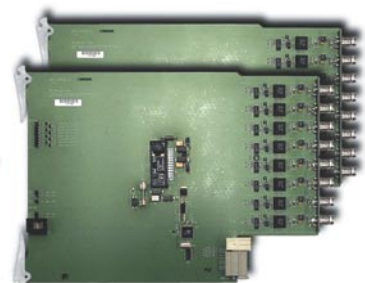
INPUT	MATRIX	OUTPUT
HD Video Cable Equalising Input	1.5Gb/s Matrix Core HD/SDI 32x32 Matrix HD/SDI 64x32 Matrix HD/SDI 64x64 Matrix HD/SDI 144x144 Matrix	HD Video Reclocking Output
HD/SDI Cable Equalising Input		HD/SDI Reclocking Output
SDI Video Cable Equalising Input		SDI Video Output Non-reclocking
		SDI Video Output with Reclocking
		SDI Video Dual Output with Reclocking
		SDI Video with 8 Analogue Encoded Outputs
	SDI Video Encoded Outputs with SDI and Analogue monitoring	
AES/EBU Synchronising Input	AES/EBU 32x32 Matrix AES/EBU 64x64 Matrix	AES/EBU Standard Output
AES/EBU Standard Input		
Analogue Video Input	Analogue Video 64x64 Matrix	Analogue Video Output
Analogue Audio Input	Analogue Audio 32x32 Mono Matrix Analogue Audio 32x32 Stereo Matrix Analogue Audio 64x64 Mono Matrix	Analogue Audio Output



Input Cards



Matrix Core



Output Cards

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