Axis HD
16 x 16 HD-SDI Router

FEATURES

- Latest HD-SDI routing technology

- Also switches SDI and ASI

- Input equalization

- Output re-clocking

- Self-contained in 1RU

- Integral or remote control panels

- Editable database

- Totally compatible with Pro-Bel control systems

- Companion Axis units for all broadcast signal formats

- Highly cost effective

AXIS HD - CENTRE OF THE DTV REVOLUTION

Axis HD is based on second generation HDTV routing technology and joins Pro-Bel's Axis range of compact routers to provide coverage of all types of broadcast signal format. In addition to routing the high definition serial digital signal at 1.485Gb/s, Axis HD also handles standard definition serial signals and DVB-ASI streams with automatic output reclocking at all these data rates. As with all other Axis routers, Axis HD may be fitted with an integral control panel and with its own controller which enables it to support external panels and to drive slave routers.

This new addition makes Axis the most flexible and comprehensive range of 16 x 16 routers currently available.

The full Axis range

The Axis family is a compact range of 16 x 16, 1U self contained routing switchers addressing a wide range of audio visual routing requirements from traditional broadcast to new mediacasting technologies. Options are available to switch video and audio in both digital and analog formats.

Axis routers can be supplied in either master or slave frame configurations. Master frames have an internal controller permitting them to be used as stand alone routers and can be supplied with or without an integral X-Y control panel. Additionally, up to three slave frames can be controlled from a master frame enabling routers with up to four breakaway levels to be constructed. Master frames are fitted with two control ports, pre-configured as one panel port for up to sixteen control panels (including the integral panel), and one remote control port.

Axis however, is more than just a stand alone routing system. An editable database releases the router's full potential, permitting the control ports to be configured as either panel ports, supporting a mixture of up to 32 control panels and undermonitor displays, or as remote control ports. With its editable database Axis can be configured to provide control for up to eight breakaway levels.

Full control compatibility with the parallel control bus used on Pro-Bel's Freeway routers, and the use of Pro-Bel General Switcher protocol on the remote control ports, guarantees operation with all Pro-Bel control systems, enabling Axis routers to be seamlessly incorporated with existing or new router installations.

Technical Specification

General

Size	1U 19" rack mounting x 490 mm deep (19") (exc. connectors)
Power supplies	Single, autosensing 90 to 264 Vac. 50/60 Hz
Power consumption	70Ω maximum

Control

Control	2 x RS485, panel/remote control ports
Configuration	1 x RS232 (option)
Control expansion	1 x parallel port

Connections

Power	3 way IEC
Control/configuration	15 way D type socket
Expansion	37 way D type socket
Video Reference	Analog video, 0.3v sync, 75Ω terminated, BNC connector

Inputs

Number and type	16, unbalanced serial data
Connector	BNC, 75Ω
Standard	HD-SDI to SMPTE 292M
Return loss	>15dB @ SD rates
Equalizer	>250m Belden 8281 or PSF 1/2M @ SD rates

Outputs

Number	16
Type	As inputs
Re-clocking bit- rates	143Mbit/s, 270Mb/s SDI, 270Mb/s ASI, 360Mb/s, 540Mb/s,
Return loss	>15dB @ SD rates
Amplitude	800mV ±10%
Rise/fall time	<270ps (HD)
Overshoot	<10%
Alignment Jitter	<0.2UI

Specifications subject to change

Ordering Information

Master Routers			
Editable Database config.			
Incl. front mounted control panel	AXH-MPE		
Excluding front mounted panel	AXH-MNE		
Slave Router configuration	AXH-SSN		

Control Panels (for master routers only)	Fixed database	Editable database
RCP-100N-1600, 16 way single bus panel	●	●
RCP-100N-1616, dual 16 way button panel (X-Y)	●*	●
6276-00, 6276 X-Y panel		●
6277-20, 6276 2 bus panel		●
6277-40, 6276 4 bus panel		●
6277-60, 6276 6 bus panel		●
6277-80, 6276 8 bus panel		●

* Only systems excluding front mounted X-Y panel

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