

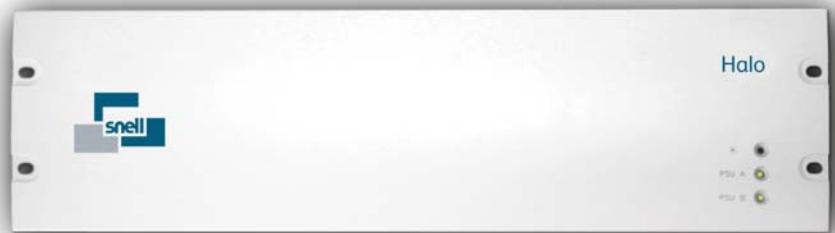
Snell's Halo family is perfect for ASI/SDI and HD/SD/ASI switching applications requiring a cost effective but reliable solution. Halo addresses a wide range of digital routing requirements with a special focus on redundancy switching in digital cable and satellite applications.

The Halo range is based on the latest switching technology to fully support HD, SDI and ASI switching. The router can either be supplied with 8 inputs and 8 outputs, 16 inputs and 16 outputs, 32 inputs and 32 outputs or 32 inputs and 16 single outputs.

The flexibility to select different operating modes, including dual outputs, plus removable redundant power supplies mounted on the rear makes this an ideal choice for redundancy switching requirements. As an example, in dual operation one router could switch SDI into MPEG encoders and the second could switch the ASI outputs from the encoders.

Halo

ASI/SDI and HD/SD/ASI Routing Switcher



Features

- Available in sizes from 8 x 8 to 32 x 32
- HD/SD/ASI or low cost SD/ASI options
- Flexible operating modes - single or dual outputs. One or two routers in a frame
- Removable dual redundant power
- Supports control from management systems and control panels

Control using:

- BPX or XY control panels
- Snell General Switcher protocol via RS485 or Ethernet
- SNMP
- Various OEM protocols - contact Snell for details
- Slave from Sirius, Freeway, other Halo or Axis routers

The 32 x 32 unit can be configured for:

- 32 x 32 single outputs
- Dual 16 x 16 single outputs
- 32 x 16 operatin with dual PSU

32 x 16, 16 x 16 and 8 x 8:

- Single outputs

Halo is more than just a standalone routing system. The 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 under monitor display, or as remote control ports. With the editable database, Halo can be configured to provide control for up to 8 breakaway levels.

Full control and compatibility with the parallel control bus used on Snell's Freeway and Sirius routers, and the use of Snell general switcher protocol on the remote control ports, guarantees operation with all Snell control systems, allowing Halo routers to be seamlessly incorporated with existing and new router installations. The addition of an Ethernet port allows control of the router in remote locations.

Ordering Information

	Type	Master/ Slave	Size
HAL-HDVM-3232	HD	Master	32 x 32
HAL-HDVS-3232	HD	Slave	32 x 32
HAL-SDVM-3232	SD	Master	32 x 32
HAL-SDVS-3232	SD	Slave	32 x 32
HAL-HDVM-3216	HD	Master	32 x 16
HAL-HDVS-3216	HD	Slave	32 x 16
HAL-SDVM-3216	SD	Master	32 x 16
HAL-SDVS-3216	SD	Slave	32 x 16
HAL-HDVM-1616	HD	Master	16 x 16
HAL-HDVS-1616	HD	Slave	16 x 16
HAL-SDVM-1616	SD	Master	16 x 16
HAL-SDVS-1616	SD	Slave	16 x 16
HAL-HDVM-0808	HD	Master	8 x 8
HAL-HDVS-0808	HD	Slave	8 x 8
HAL-SDVM-0808	SD	Master	8 x 8
HAL-SDVS-0808	SD	Slave	8 x 8

Technical Specification

General	
Size	3U 19" rack mounting x 60mm deep (exc.PSU, 260mm inc. PSU)
Power supplies	Dual, autosensing 110/230Vac. 50/60 Hz
Power consumption	25W maximum
Control	
Control	2 x RS485, panel/remote control ports, SNMP on 10Base T port
Configuration	1 x RS232 (option)
Control expansion	1 x parallel port
Connections	
Power	3 way IEC
Control/configuration	9 way D type socket
Expansion	37 way D type socket
Video reference	625/525 black + burst
Power monitoring relay	9 way D
Halo SD-SDI	
Inputs	
Number and type	32 Unbalanced NRZI coded serial data
Standard	Serial EBU Tech 3267E SMPTE 259M-ABCD
Impedance	75Ω
Data rate	50—622Mbps
Return loss	>15dB 10MHz to 360MHz
Amplitude	800mV p-p nominal
DC offset	<5V
Equalizer	Automatic for up to 250m cable (Belden 8281, PSF1/2M)

Outputs	
Type	32 Unbalanced NRZI coded serial data
Standard	Serial EBU Tech 3267E SMPTE 259M-ABCD
Impedance	75 Ω
Data rate	3—622Mbps

Return loss	>15dB 10MHz to 360MHz
Amplitude	800mV p-p ±10%
DC offset	0V ± 0.5V

Halo HD-SDI

Inputs	
Number and type	32 unbalanced serial data
Standard	HD/SDI to SMPTE 292M and SDI to SMPTE 259M
Return loss	>13dB @ HD rates
Equalizer	>100m Belden 1694A @ HD rate

Outputs	
Number and type	32 unbalanced serial data
Return loss	>13dB @ HD rates
Amplitude	800mV ± 10%

Note: The 8 x 8 family will appear as a 16 x 16 router to any external controller.

The 32 x 16 will appear as a 32 x 32 to any external controller.



Reverse of Halo frame

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