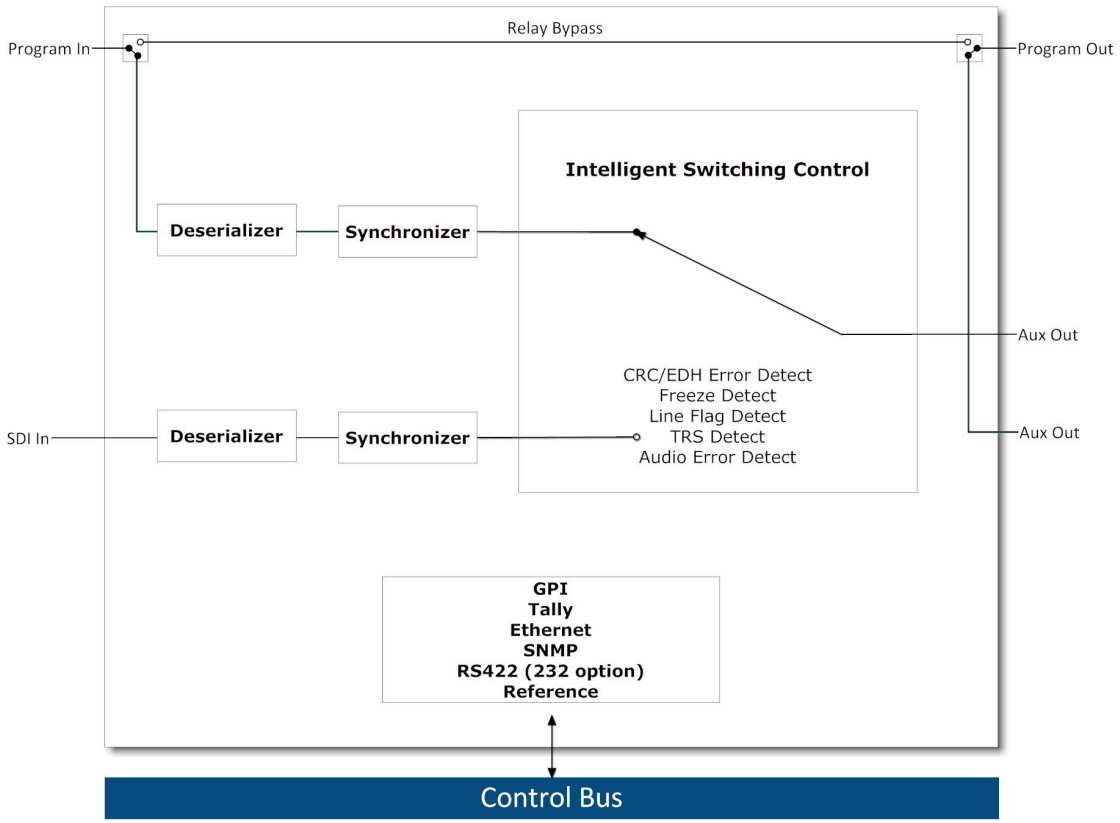
MicroVideo

HDS 201s

Seamless 2x1 protecton switch

- 100% Seameless changeover on loss of video
- 100% Clean manual switch
- Accepts mistimed signals up to 1 HD frame
- 2 in 3 out
- SNMP management
- Relay bypass protection
- Hot Swappable
- Auto detect input video standard
- Manual switching from external trigger
- User selectable latch or automatic return
- Transparently pass All VBI/VANC data
- Input presence detection with LED indicators



Features

100% seamless switching of critical digital video paths for broadcast applications. The HDS-201s will switch seamlesly between two mistimed input sources even on loss of primary feed.

Two modes of switching are provided; automatic and non-reseting. When set to automa6c the HDS-201s will immediately switch back to the primary signal once that signal has been restored. In the non-reseting mode, the secondary input remains routed to the output, even after the primary input has recovered.

Mis-timed signals of up to a complete HD frame can be re-aligned, but no unnecessary delay is introduced by the card.

The unit has 2 Serial Digital (HD/SD-SDI) inputs, and 3 re-clocked SDI outputs. The signal is protected by a passive, fail-safe bypass relay that ensures there is an output even in the event of a total power failure.

The HDS 201s comes with integrated web interface, GPI and SNMP controls

MicroVideo
Copley Hill Business Park
Cambridge Road
Babraham
Cambs CB22 3GN

tel: +44 1223 834 119
www.microvideo.co.uk

Specification

Input

SD/HD Serial Video	SMPTE 424M (3Gb/s) SMPTE 292M (1.5Gb/s)SMPTE 259M (270Mb/s)
Standard	1080p/59.94, 1080i/59.94, 1080i/50, 720p/50
Number of Inputs	2
Ref input	Normal SD syncs, Tri-level or black burst
Equalization	Automatic to 75m @ 1.5Gb/s with Belden 1694A or equivalent cable.
Return Loss	> 10dB up to 1.5GHz

Ouput

HD Serial Video	As per input
Standard	As per input
Number of Outputs	3 (1 relay bypass protected, 2 broadcast quality monitoring outputs)
Signal Level	800mV nominal
DC Offset	0V ±0.5V
Rise and Fall Time	200ps nominal for HD, 750ps nominal for SD
Overshoot	< 10% of amplitude
Return Loss	> 15dB up to 1.0Gb/s, > 10dB up to 1.5Gb/s
Wideband Jitter	< 0.2UI

Miscellaneous

Weight Approx	250g
Operating Temp	0 °C to +50 °C
Dimensions	16 x 100 x 237 mm (HxWxD)
Electrical	Voltage +5Vdc

Options

Frames/Cases

HD1U-10	Rack mounting 1U frame with single PSU. Allows use of upto 6 Series 200 and 300 cards
HD1U-20	Rack mounting 1U frame with dual PSU. Allows use of upto 6 Series 200 and 300 card
SA-1-DG	Desktp Box to house single series 300 card (including TCPIP, RS232/422, cables and PSU)

Rear Modules

LAT-300	Latching relay, maintains signal path even on loss of power
HDA-304	Adds a further 3 outputs to give a total of 6 outputs (uses additional slot)

Rear Connections

Primary In
Backup In
Not Used
Aux 2 Out
Aux 1 Out
Program Out

Switching Triggers

Video	**3G**	**HD**	**SD**
Loss of Video	✓	✓	✓
Video Error	✓	✓	✓
Black	✓	✓	✓
Freeze	✓	✓	✓
Audio			
Prescence	✓	✓	✓
Silence	✓	✓	✓