



HVD05

HD video delay (32 frames)

A Synapse® product

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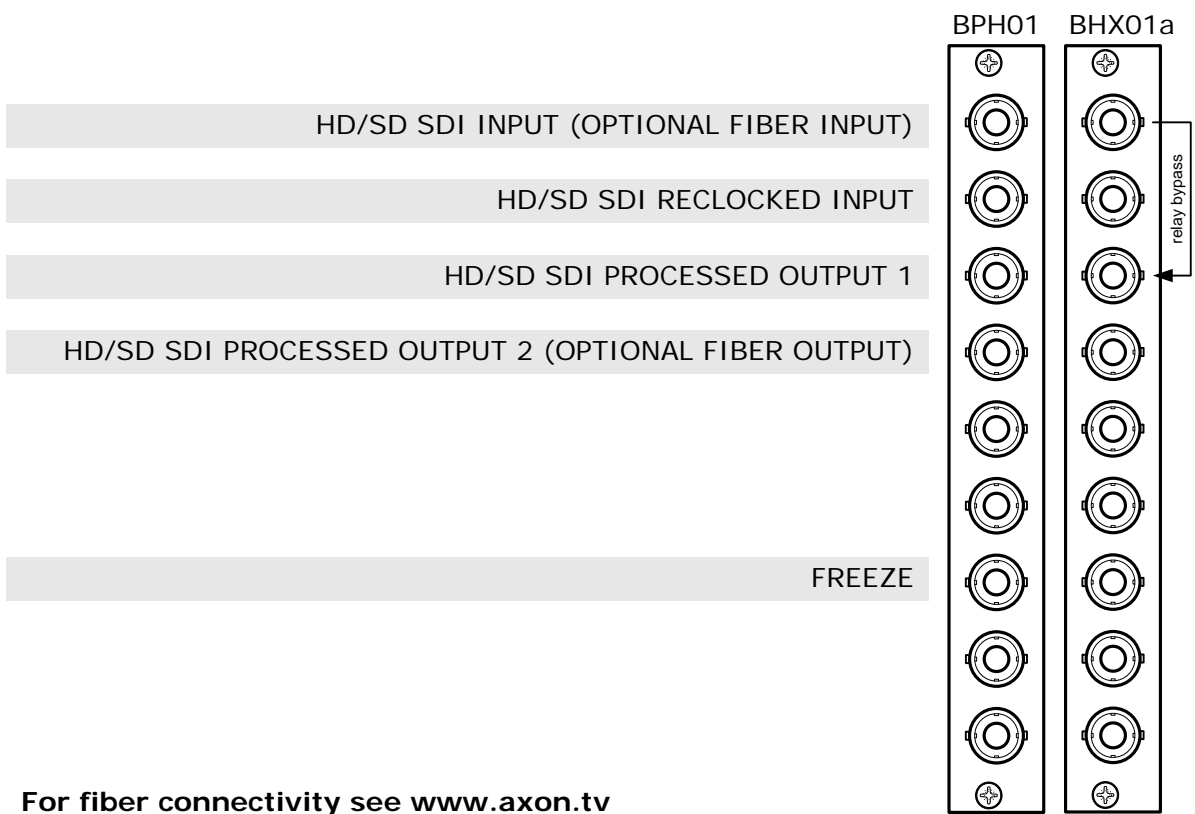
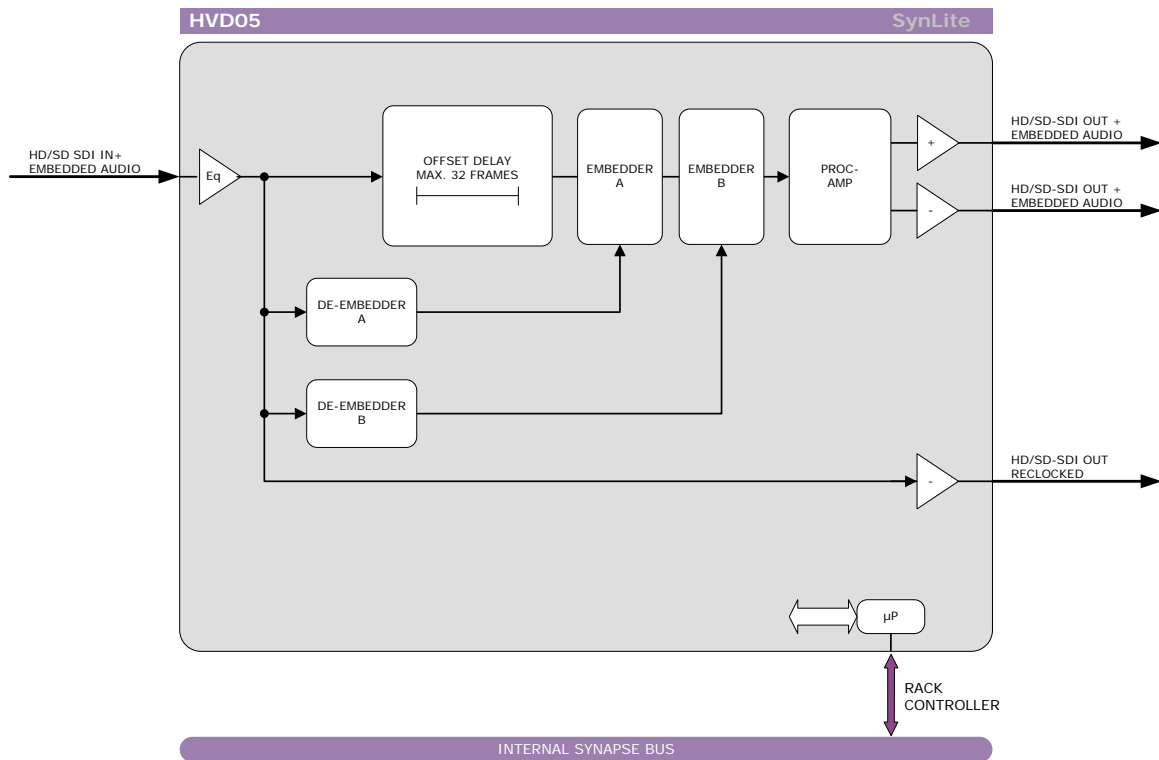
HD
High definition

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Block Schematic & I/O panel



For fiber connectivity see www.axon.tv

Features

The HVD05 is an HD-SDI video offset delay of up to 32 frames (adjustable in frames, lines and pixels). The unit has a Serial Digital (HD-SDI) component input at 1.485 Gb/s, 1 re-clocked HD-SDI output and 2 delayed HD-SDI outputs.

- Adjustable offset delay up to 32 frames
- Adjustable delay setting per format i.e. 1080, 720 and SD
- Adjustment in frames, lines and pixels
- ProcAmp
- Full transparent delay for video and audio
- 2 Groups of audio can be processed with minimum delay (or matching video delay)
- ANC H + V blanking
- Locks to SDI input
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)
- Optional 1 fiber input (replacing 1 SDI input) or 1 fiber output (replacing 1 SDI output) on I/O panel

Applications

- Timing correction in HD virtual studios
- 'Late' embedded audio correction

Ordering information

Module:

- **HVD05:** HD/SD video delay (8 frames)

Standard I/O:

- **BPH01_HVD05:** I/O panel for HVD05

Fiber outputs:

- **BPH01T_FC/PC_HVD05:** I/O panel for HVD05 with fiber transmitter on FC/PC
- **BPH01T_SC_HVD05:** I/O panel for HVD05 with fiber transmitter on SC

Fiber inputs:

- **BPH01R_FC/PC_HVD05:** I/O panel for HVD05 with fiber receiver on FC/PC
- **BPH01R_SC_HVD05:** I/O panel for HVD05 with fiber receiver on SC

Specifications

SD/HD Serial Video Input

Standard	625/50 or 525/59.94 SMPTE 259M-C (270Mb/s) with SMPTE 272M embedded audio SMPTE 292M (1.5Gb/s), SMPTE 260M, SMPTE 274M, SMPTE 296M, SMPTE 349M 1080i/59.94, 1080i/50, 720p/59.94, 720p/50
Number of Inputs	2
Equalization	Automatic to 100m @ 1.5Gb/s with Belden 1694A or equivalent cable.
Return Loss	> 15dB up to 1.5GHz

HD Serial Video Output

Standard	625/50 or 525/59.94 SMPTE 259M-C (270Mb/s) with SMPTE 272M embedded audio SMPTE 292M (1.5Gb/s), SMPTE 260M, SMPTE 274M, SMPTE 296M, SMPTE 349M 1080i/59.94, 1080i/50, 720p/59.94, 720p/50
Number of Outputs	3 (1 reclocked and 2 processed)
Signal Level	800mV nominal
DC Offset	0V \pm 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 Temperature	0 °C to +50 °C
Dimensions	137 x 296 x 20 mm (HxWxD)

Electrical

Voltage	+24V to +30V
Power	<8 Watts