



Synapse

HAS05M

HD/SD 8-channel 2-group embedded audio processing card with presets

A Synapse® product

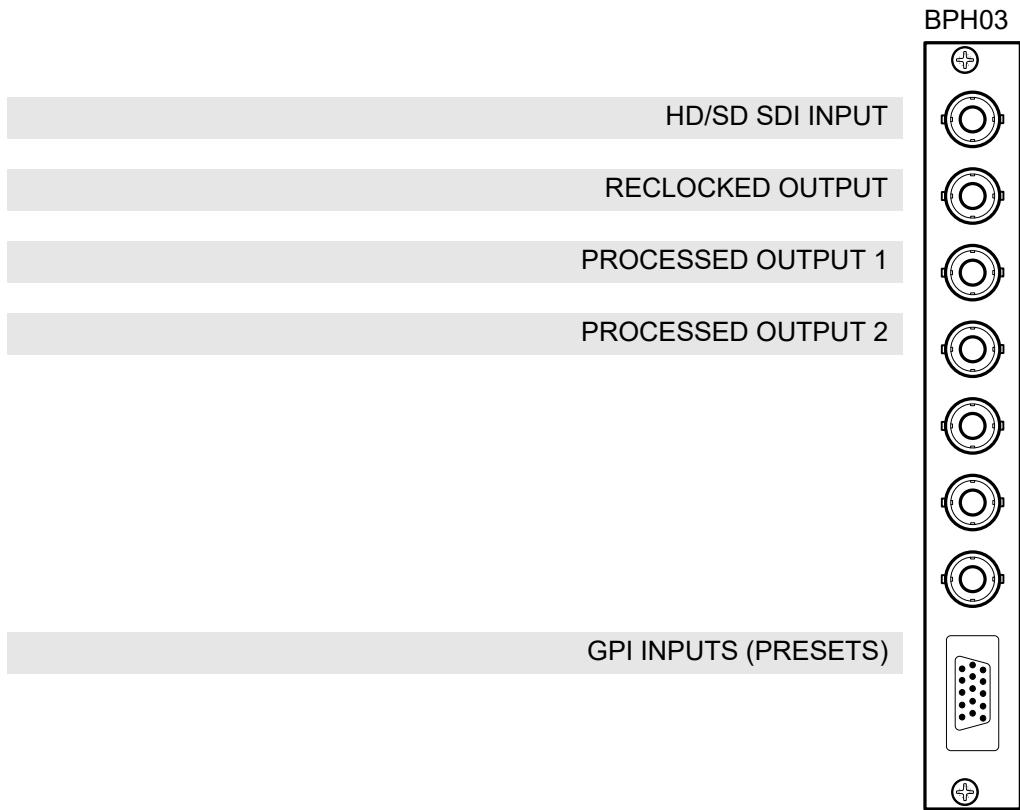
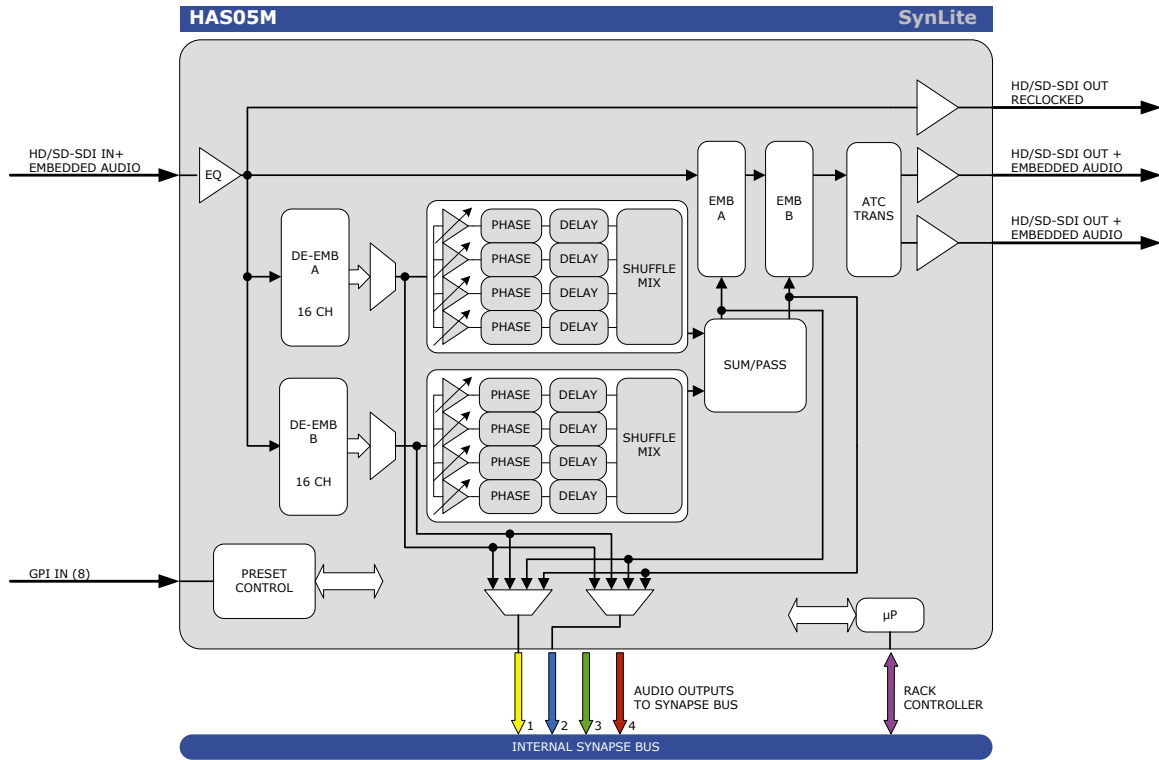
**MASTER
Card**

HD
High definition



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Block schematic & I/O panel



Features

The HAS05M is an 8 channel in 2 group preset based HD/SD-SDI embedded audio shuffler/mixer. AXON is an industry first with this comprehensive card, and puts full audio control power in to the hands of an HD-SDI embedded signal user. Individual gain, phase and delay control for each channel are also part of this powerful card. The preset based control of this card makes it ideal for repeated corrections or standard channel swapping occasions in a multi lingual environment. If dynamic control is required the card can still perform this task as every preset is remote controllable by a third party control protocol or our dedicated control panel SCP08.

- HD-SDI and SD-SDI compatible (functional equivalent to SD is SAS30)
- Mix between 2x 4 channel shuffle/mix or 1x 8 channel shuffle/mix
- 8 channel selection (any 8 out of 16)
- 8 presets (GPI or ACP controlled)
- Dual 4 channel mix (group) with the option to add 4 channels into 1
- Pre and post monitoring with ADD-ON Card
- Audio input gain (0.25dB steps)
- Audio input phase (0 – 180 deg)
- Audio peak detection
- Audio input delay offset (0 to 2600 ms)
- Transparent for ATC time code RP188, RP196, RP215
- Locks to SDI input
- Full control and status monitoring through the front panel of the SFR08/SFR18 frame and the Ethernet port (ACP)

Complementary cards:

- DAC20, DAS24, DIO48, DIO24

Applications

- Ingest audio channel correction (HD)
- Preset based play-list audio shuffling
- OB Van audio shuffling with job determined presets

Ordering information

Module:

- **HAS05M:** HD/SD 8-channel 2-group embedded audio processing card with presets

Standard I/O:

- **BPH03_HAS05M:** I/O panel for HAS05M

Specifications

HD/SD 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
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
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	<7 Watts