



Synapse

GLI100

HLI100

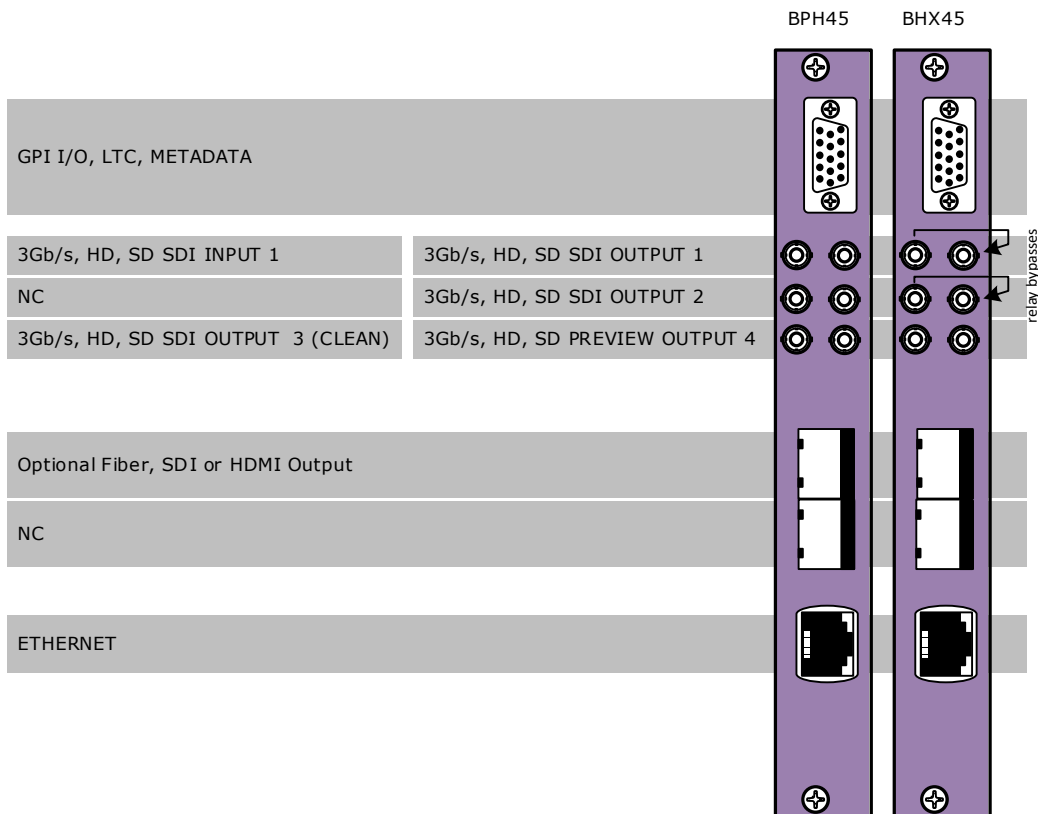
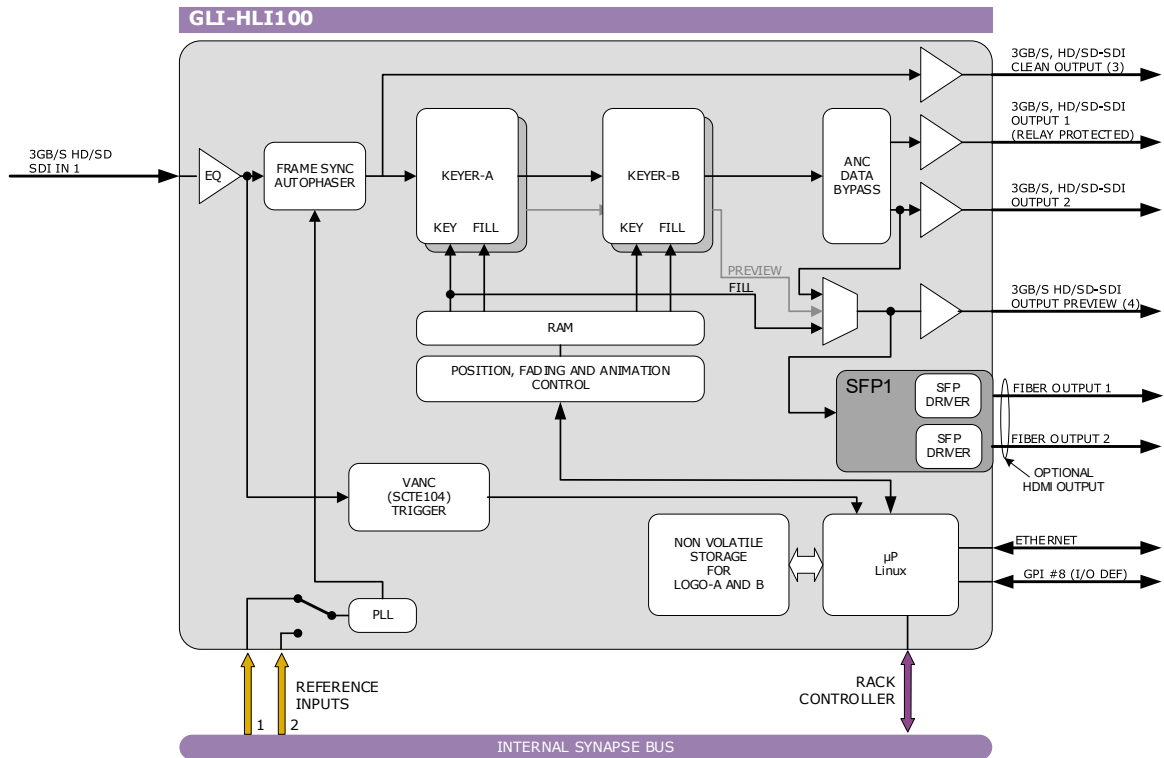
3Gb/s, HD and SD preset based dual logo inserter/generator

A Synapse® product



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Block schematic & I/O panel



Features

The GLI-HLI100 is a dual logo inserter, with a preset based logo recall function through a flexible user interface and a local storage. Multiple logos including animated ones can be selected through the synapse menu, GPI, or triggered by VANC (SCTE104) data contained the input. The GLI-HLI100 is capable of inserting two logos and will be used for channel branding with the option to alter the main channel logo on the fly, preset based and simultaneously add a “theme logo” that is triggered as a one shot with predefined fade in and fade out times.

The GLI-HLI100 is capable of generating logos to be inserted by other devices and can be configured to provide Key and Fill.

The GLI-HLI100 has a fully featured preview bus allowing transitions and keying levels to be previewed before the logo or audio placed into the program stream.

Intelligent Content Allocation ensures efficient use of image RAM. For full frames, the area of interest is automatically detected up to 20 percent of the screen surface. This increases animation duration from 100 for full frames (1920x1080) to 500 frames (20% area of 1920x1080).

- 3G-SDI*, HD-SDI and SD-SDI compatible
- Formats GLI-HLI100:
 - 1080p/50/59.9*
 - 1080i/50/59.94
 - 720p/50/59.84
 - 625/50
 - 525/59.94
- Logo inserter or generator mode (key and fill output)
- Two individual logo inserters
- Logos are stored in onboard non-volatile memory and accessible through FTP or WebDAV
- Logo A:
 - 32 presets for full screen 1920x1080, or maximum 500 frames of animation
 - H+V position
 - Transparency
 - Fade in time
 - Fade out time
 - Macro: fade in, hold, fade out and animation one shot or loop
- Logo B:
 - Sharing the memory allocated for Logo A, Logo B has an additional 32 presets for full screen 1920x1080, or maximum 500 frames of animation
 - H+V position
 - Transparency
 - Fade in time
 - Fade out time
 - Macro: fade in, hold, fade out and animation one shot or loop
- Frame-synchronizer and autophaser for stable input locking
- On loss of input, show freeze, color field or recall apology preset on processed output
- Clean output from frame-synchronizer
- Optional HDMI or Fiber output on SFP cage
- 8 GPIO contacts assignable to presets, including optional take and priority mode.
- Trigger information contained in VANC (SCTE104) packets on SDI input can be used to recall logos or animations
- Input video format and presence can be detected and used in conjunction with GPIs, VANC (SCTE104) information to select banks of logos, the specific logo from each range is determined by the information contained in the other trigger signals.
- Safety relay bypass when using a BHX45
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)
- Logo uploading through dedicated Ethernet port on the connector panel.
- Locks to Bi-level, Tri-level syncs or SDI input

* = GLI100 only

Applications

- Channel branding
- Full screen static announcements
- Animations and dynamic theme logo's

Ordering information

Module:

- **GLI100:** 3G/HD/SD preset based dual logo inserter
- **HLI100:** HD/SD preset based dual logo inserter

Standard I/O:

- **BPH45_GLIxxx:** I/O panel for GLI-HLI100

Relay Bypass I/O:

- **BHX45_GLIxxx:** I/O panel for GLI-HLI100 with relay bypass

Specifications

Serial video input

Standard	3Gb/s, HD and SD SDI:, SMPTE424, SMPTE 292M, SMPTE 259M
Number of inputs	1
Connector	DIN 1.0/2.3
Equalization	Typical maximum equalized length of Belden 1694A cable: 90m at 2.97Gb/s, 120m at 1.485Gb/s, and 250m at 270Mb/s
Return loss	> 15dB up to 1.5GHz

Serial video output

Number of outputs	4
Connector	DIN 1.0/2.3
Signal level	800mV nominal
DC offset	0V \pm 0.5V
Rise/fall time	135ps nominal
Overshoot	< 10% of amplitude
Return loss	> 15dB up to 1.5GHz (typ.); > 10dB up to 3GHz (typ.)
Wideband jitter	< 0.2UI

Reference Input through RRC

Number of Inputs	2 on SFR18, 2 on SFR08 and 1 on SFR04
Tri-level	SMPTE274M, SMPTE296M 600 mVp-p nominal, 75 Ohms terminated through loop
Bi-level	PAL Black Burst ITU624-4/SMPTE318, Composite NTSC SMPTE 170M

Ethernet

Standard	1000BASE-T, 100Base-Tx, 10Base-T IEEE 802.3
Connector	8P8C (RJ45)

File Formats

Stills	PNG, TGA version 2.0
Animations	Sequence of PNG, TGA

Electrical

Voltage	+24V to +30V
Power	<18 Watts