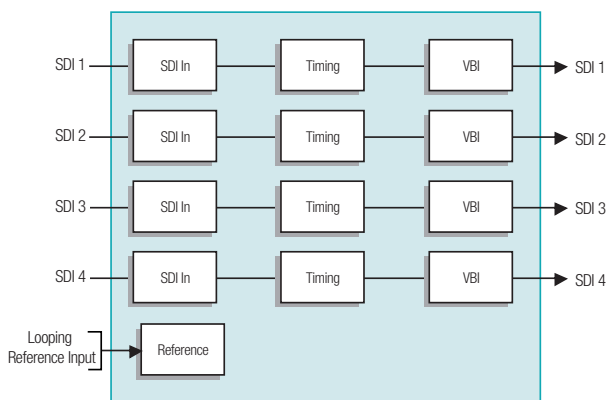
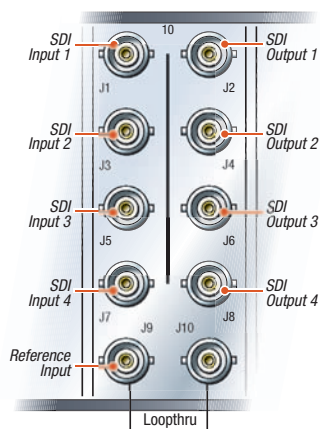


The 8964FS provides a very compact and low-cost alternative to the 8981FS by providing four complete SDI frame synchronizers. Using the latest technology enables the 8964FS to achieve unsurpassed density, providing 40 full featured frame synchronizers in just 2 RU. This module can also operate in a fixed delay mode with no reference required. In either mode, the output can be phased relative to input or reference up to one frame in increments of 37 ns. All adjustments can be performed on the module's card edge controls. The on-screen display capability greatly simplifies card-edge configuration. With the 8900NET card installed in the frame, remote, Ethernet-based control and monitoring is achieved via the Web browser-based control/configuration interface, Newton control panel, and NetCentral monitoring system.

key features

- Four 270 Mb/s frame synchronizers
- One output per input
- Looping color black reference input
- Automatic 525/625 lines selection
- Output timing locked to reference input and adjustable in 37 ns steps over a full frame
- Passes or blanks horizontal ancillary data (HANC)
- Passes or blanks vertical interval ancillary data (VANC)
- Monitors its input signals for EDH errors
- Inserts new EDH on output
- Hot swappable
- Freeze mode
- On Screen Display ease local parameters control
- Compatible with Ethernet-based Newton control system



specifications

Inputs

Number of Inputs: Four, one for each synchronization path

Signal Type: SMPTE 259M, 10-bit, 270 Mb/s serial component digital

Connector: Terminating 75Ω BNC

Return Loss: >15 dB to 270 MHz

Reference Input

Number of Inputs: One NTSC/PAL

Signal Type: Color Black, SMPTE 170M (525 lines) or CCIR624 (625 lines)

Return Loss: >36 dB to 5 MHz

Output

Number of Outputs: Four, one for each synchronizer

Signal Type: SMPTE 259M, 10-bit, 270 Mb/s serial component digital

Connector: Terminating 75Ω BNC

Return Loss: >15 dB to 270 MHz

Performance

Signal Path: 10-bit

Error Detection and Insertion: EDH

Min. Electrical Length (delay mode):

525 lines: 5 lines + 55.22 μs

625 lines: 4 lines + 55.90 μs

Output Timing Range: One frame

Output Timing Resolution: 37 ns

Operating Temperature: 0° to 45°C

Operating Humidity Range: 0% to 90% non-condensing

Power Consumption: <8W

Indicators and Controls

Indicators: Input video present, reference present, communication active, power, fault

Controls: Vertical blanking, sync/delay modes, test signal, EDH, OSD

Remote: All indicators and controls via Ethernet

ordering information

8964FS

Four-channel SDI frame synchronizer

8964FSMAN

Product manual

8900TX-V

2 RU frame with passive cooling and single 100W power supply (Cooling limited to 30W maximum load without adding fan front cover, 8900FAN)

8900TF-V

2 RU frame with fan front cover (8900FAN) and single 100 W power supply

8900TFN-V

2 RU frame with fan front cover (8900FAN), 100W power supply, and Ethernet card (8900NET)

8900PSX

Redundant 100W power supply for 8900TX, 8900TF, and 8900TFN, works in all 8900/Gecko frames

8900NET

Ethernet interface card to upgrade 8900TX or 8900TF