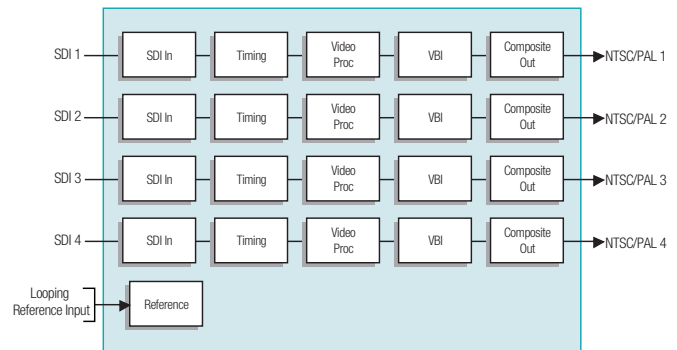


The 8964ENC converts four 270 Mb/s serial component digital signals to four NTSC or PAL composite analog outputs on a single Gecko series card. Typical applications include cost-effective analog VTR interfaces, composite analog production switcher inputs, and analog transmitter feeds. Up to 40 encoders can be housed in only 2 RU of space. Most adjustments to this card can be performed on the module's card-edge controls. The included on-screen display capability greatly simplifies card-edge configuration. When the 8900NET card is installed in the frame Web browser-based control/configuration, Newton control panel interface and immediate access to the NetCentral monitoring system is achieved.

key features

- **10-bit signal processing**
- **Four 270 Mb/s SDI to NTSC/PAL encoders**
- **On Screen Display (OSD)**
 - Configuration information keyed onto video output simplifies local card-edge controls
- **Outputs four independent NTSC or PAL video signals**
 - Supports NTSC with or without setup
 - Proc amp controls
 - Line-by-line VBI processing
 - Confidence test signal generator
- **Options**
 - Frame synchronizer, offers full frame output phasing



specifications

Inputs

Number of Inputs: Four, one for each encoder

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

Connector: Terminating 75 Ω BNC

Return Loss: >15 dB to 270 MHz

Reference Input

Number of Inputs: One NTSC/PAL (required for operation)

Signal Type: Color black, SMPTE 170M (525 lines) or CCIR

Connector: Looping 75 Ω BNC

Return Loss: >36 dB to 5 MHz

Outputs

Number of Outputs: Four, one for each encoder

Signal Type: SMPTE 170M for NTSC and CCIR624 for PAL

Connector: 75 Ω BNC

Return Loss: >40 dB to 5.5 MHz

Isolation: \geq 60 dB to 5.5 MHz

Performance

Quantization: 10-bit

Response: \pm 0.1 dB to 5.5 MHz

Differential Phase: <0.5°

Differential Gain: <0.9%

RMS SNR: >60 dB to 5.5 MHz

Output Phasing: Full frame with frame synchronizer

Electrical Length: 2.1 μ s

Hue: \pm 22.5

Operating Temperature: 0° to 45°C

Relative Humidity: 0% to 90%

Power Consumption: 8.5W

Indicators and Controls

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

Controls: Output gain, luma level, black level, chroma level, hue, filters, vertical blanking, test signal, timing

Remote: All indicators and controls via Ethernet

ordering information

8964ENC

Four-channel SDI to NTSC/PAL encoder with line synchronizer

8964ENC-FS

Four-channel encoder with frame synchronizer

8964ENCMAN

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