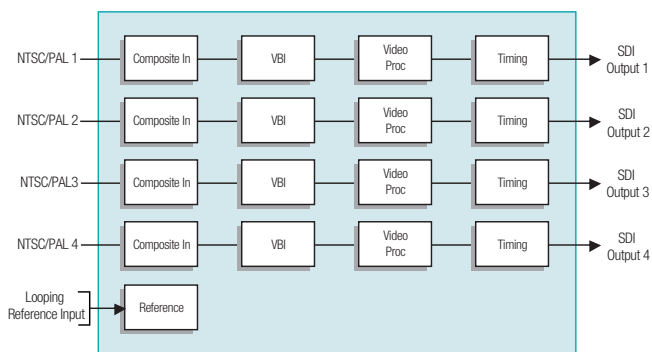
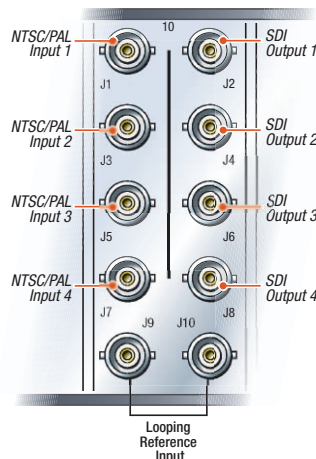


The 8964DEC offers four independent full-function decoders on a single Gecko series card. Typical applications include cost-effective analog conversion for a digital server, switcher, or router. Up to 40 decoders can be housed in only 2 RU of space. The 8964DEC has a robust analog input circuit, which easily accommodates noisy signals such as satellite and microwave links. 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

- **Four NTSC/PAL to 270 Mb/s SDI decoders**
- **On Screen Display (OSD)**
  - Configuration information keyed onto video output simplifies local card-edge controls
- **Signal inputs NTSC or PAL**
  - Supports NTSC with or without setup
- **Processing includes: clamping, AGC (sync tip referenced), ACC (burst referenced)**
- **Reference input NTSC/PAL analog color black**
- **Picture detail enhancement**
- **Four 270 Mb/s SDI outputs with independent**
  - Line sync mode for horizontal timing
  - Proc Amp controls
  - Line-by-line VBI processing
  - Test signal generator, includes color bars and pathological signals
- **Options**
  - Frame synchronizer, offers full frame output phasing



## specifications

### Inputs

**Number of Inputs:** Four, one for each decoder

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

**Connector:** Terminating 75Ω BNC

**Return Loss:** >40 dB to 5 MHz

### Reference Input

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

**Signal Type:** Color black SMPTE 170M (525 lines) or CCIR624 (625 lines)

**Connector:** Looping 75Ω BNC

**Return Loss:** >36 dB to 5 MHz

### Output

**Number of Outputs:** Four, one for each decoder

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

**Connector:** 75Ω BNC

**Return Loss:** >15 dB to 270 Mb/s

### Performance

**Quantization:** 10-bit

**RMS SNR:** > 59 dB to 5.5 MHz

**Output Phasing:** ±1/2 line, with line synchronizer, full frame with frame synchronizer option

**Electrical Length:** 1.4 ms

**Operating Temperature:** 0° to 45°C

**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

## ordering information

### 8964DEC

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

### 8964DEC-FS

Decoder with frame synchronizer

### 8964DECMAN

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 100W 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-A/V, 8900TF-A/V, and 8900TFN-A/V, works in all 8900/Gecko frames

### 8900NET

Ethernet interface card to upgrade 8900TX-A/V or 8900TF-A/V