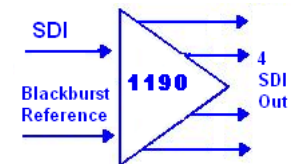
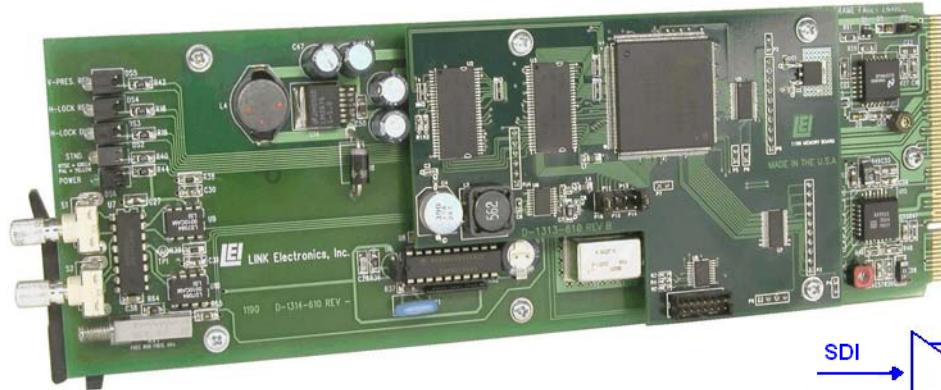




**LINK ELECTRONICS, INC.**

## SDI FRAME SYNCHRONIZER MODULE

### DigiFlex 1190



#### FEATURES

- ◆ 10 Bit Processing
- ◆ Digital Component Input
- ◆ Digital Component Output
- ◆ Analog Blackburst Reference
- ◆ Infinite Window H & V Phasing
- ◆ Freeze Last Good Frame/Field On Signal Loss

#### Mounting Frame Options

- 1000 - Single Power Supply, Holds 11 Modules
- 1000/2 - Dual Power Supply, Holds 10 Modules
- 7200 - Mounting Frame, Holds 1 Module

The LINK 1190 Frame Synchronizer represents the state of the art in digital signal synchronization. It's input is asynchronous component serial digital video, which is de-serialized and written into the on-board frame buffer.

The output is read from memory according to the timebase of the analog blackburst reference signal. Front panel horizontal and vertical phase adjustments control the output timing relative to the reference. When used in conjunction with our A-to-D and D-to-A products, analog signals may be synchronized to a house reference as well.

LED's on the card edge provide monitoring of Power, Video Presence Analog, Video Presence Digital, NTSC/PAL, and H Lock Analog.

The 1190 can be used with the DigiFlex 1159, 1160, 1162, 1165, 1166, or 1167 to synchronize composite or component analog signals to the system.

The Link 1190 is used either ahead of the conversion device or behind the conversion device. This provides the user with a great deal of system flexibility. There are over 24 system configurations.

The 1190 provides for both PAL and NTSC reference inputs. Timing for both Horizontal and Vertical are controlled from the front panel. The 1190 operates in the 1000 series frame in any module configuration. This is not a sub-module, it is a full featured product.

When the input video is lost the output will either be black or the last good frame of video, jumper selectable. If the reference video is lost, the 1190 will use it's own internal timebase with 2.5ppm stability standard.

The 1190 has automatic NTSC/PAL digital detection on the input signal. The analog reference input must match the input signal.

**DIGIFLEX 1190  
SDI FRAME SYNCHRONIZER MODULE  
SPECIFICATIONS**

**INPUT**

Number: ..... ONE (1)  
 Standard: ..... SMPTE 259M-C 270Mb/s  
 Configuration: ..... Single-ended  
 Connector: ..... 75Ω BNC  
 Impedance: ..... 75Ω±1%  
 Common Mode Rejection: ..... 30Vpp up to 60Hz  
 Return Loss: ..... >18dB

**REFERENCE INPUT (Differential BNC Looping)**

Return Loss: ..... > 35dB  
 Signal Level: ..... 800mV±10%  
 Standard: ..... Analog PAL or NTSC Composite

**OUTPUTS**

Number: ..... FOUR (4)  
 Standard: ..... Same as Input  
 Connector: ..... 75Ω BNC  
 Impedance: ..... 75Ω±1%  
 Return Loss: ..... >20dB  
 Bit Resolution: ..... 10 BIT  
 Signal Level ..... 800mV±10%  
 Rise/Fall Time ..... 750ps±250ps

**FRONT PANEL CONTROLS, INDICATORS**

Power: ..... Green LED  
 H. Timing, Rotary Encoder: ..... Infinite Window  
 V. Timing, Rotary Encoder: ..... Infinite Window  
 Video Presence Analog,: ..... Bi Color LED  
 Video Presence Digital ..... Bi Color LED  
 NTSC/PAL: ..... Bi Color LED  
 H. Lock: ..... Bi Color LED  
 Free Run/Internal Frequency ..... 20 Turn Pot

**ENVIRONMENTAL**

Temperature: ..... 0° to 50°C Ambient  
 Humidity: ..... 10% to 90% non-condensing  
 Power: ..... 8.5 Watts

**MECHANICAL:**

Height: ..... 3.2 Inches  
 Width: ..... 1 Inch  
 Length: ..... 10 Inches  
 Weight: ..... 8 Oz

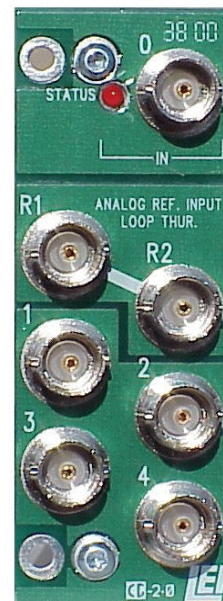
**LINK ELECTRONICS, INC.**

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 Cape Girardeau, MO 63703  
 Phone: 573 334 4433  
 FAX: 573 334 9255

**PROFESSIONAL SERIES--**

modular system products--by **LINK**

Rear Cell I/O  
 IN. SDI Input  
 R1&2. Ref.In  
 1. SDI Out  
 2. SDI Out  
 3. SDI Out  
 4. SDI Out



**Model 1090**