



# BrightEye 73



- Optical Transmitter
- Use with Servers, Workstations and Routers
- 8 Channel Audio Embedder
- HD/SD SDI Electrical and AES Inputs
- Optical Embedded Output

### ■ Specifications

Serial Digital Input

Number

HD Serial Digital 1.485 Gb/s Туре

SMPTE 274M or 296M or SD Serial Digital 270Mb/s SMPTE 259M-C

Impedance 75  $\Omega$ Return Loss >15 dB Max Cable Length 100 Meters

(Belden 1694A or equiv.)

**HD Standards Supported** 

1080i (SMPTE 274M -4,5,6) 50, 59.94 or 60 Hz 720p (SMPTE 296M -1,2,3) 59.94 or 60 Hz 1080p (SMPTE 274M -9,10,11) 23.98,24, 25 Hz 1080sF (RP211 -14,15,16) 23.98, 24, 25Hz

#### **AES/EBU Digital Inputs**

Four (total of eight channels) Number

Type AES3id Connectorization Coaxial. 75  $\Omega$ Bit Depth 20 and 24 Bit

Sample Rate 30KHz to 100KHz (sample rate converted internally to 48KHz)

<144 dB

Crosstalk Dynamic Range >144 dB

Reference Level -18 or -20 dBFS (selectable)

AC-3, Dolby-E

Supported when inputs are

synchronous

#### **Optical Output**

Number 0ne SD and ASI Type

(SMPTE 297M, optical equivalent

of 259M)

HD (SMPTE 274M or 296M)

Wavelength 1310 nm -7 dBm Power Max Cable Length 20 km Fiber Type Single Mode

Multi-mode compatible with

8 dB attenuation at transmit end

Connector

## HD/SD AES Embedder with Optical Out

The BrightEye 73 is a dual rate eight channel audio embedder for 1.5Gb/s high definition video signals or for 270Mb/s standard definition signals.

There is one serial digital video input and four AES audio inputs. These four AES streams are embedded into the video stream. AES inputs are sample rate converted, allowing the use of asynchronous audio. The output of the module is an optical signal that contains the original video signal and four AES pairs.

The BrightEye 73 includes an eight channel audio mixer with channel swap and shuffle capability that allows you to completely re-arrange and re-mix audio channels. It provides precise control over audio level, with up to 12 dB of gain to compensate for low level sources. All audio processing is performed at full 24 bit resolution by a digital signal processor (DSP). Delay is adjustable up to one second. The Data mode operation allows Dolby E or AC3 inputs.

### Embedded Output (In Optical Outputs)

Cascade, or Replace any **Group Assign** two of four groups

Channels Eight Bit Depth 24 Bit

**General Specifications** 

5.625" W x 0.8 " H x 5.5" D Size

[143 mm x 20 mm x 140 mm]

including connectors 12 volts, 7 watts

(100-230 VAC modular power supply)

O to 40° C ambient Temperature Range 0 to 95° non-condensing Relative Humidity

ENSEMBLE

Power