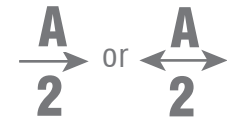




# 6102

**Digital Fiber Optic Stereo Analog Audio  
or Digital AudioTransport System**



**“Stereo Analog Audio Digital  
AES/SPDIF Over  
ONE Fiber”**



**“High performance and affordable solutions for your  
stereo, audio transmission.”**

### **Applications**

Remote Studio Audio

Remote Mixer Output

Audio Retrieval and Distribution

### **Features**

Digital Encoded Fiber Optic Links

Accommodate 2 Audio Channels

Reliable Transmission Over Multimode  
or Singlemode Fiber

**1 Fiber Solution**

**CWDM Optics Available**

The 6102 Series provides simultaneous transmission of digitized stereo audio or digital AES/SPDIF audio over one or one pair of fiber. The standard 6102 system comes with 2-channel versions and transmits these audio channels in one direction. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

The 6102 features a digital fiber optic transmission technology, capable of providing crisp audio, little or no maintenance, high functional reliability, and low operating costs. The quality of BCI's audio transmission digital design is much superior to the analog transmission counterparts (based on amplitude or frequency modulation) available from other manufacturers. In addition, no user adjustments are required in the 6102 system, enabling quick setup and trouble-free operation.

The 6102 is available with two packaging options: a rugged, standalone, and compact unit, or a plug-in card for a card cage system. Panel connectors are provided for audio (terminal block) and fiber connection (FC-type for singlemode fiber or ST-type for multimode fiber). They are also easily monitored by separate LED indicators for power, optical link, and channel activity.

Due to its digital transmission design, the 6102 is capable of addressing a variety of non-standard configurations. Contact us to discuss your custom, OEM/private brand and high volume requirements.

**Doing More With One Fiber**



# 6102

## Multimedia Transmission Systems Security/Surveillance Transmission Systems

Digital Fiber Optic Stereo Analog Audio or Digital Audio Transport System

### Analog Audio

Channel Capacity	2 (Standard)
Operating Mode	Balanced/Unbalanced
Input/Output Impedance	600/600 Ohms (Balanced)
Max. Input/Output Level	+10dBm @ 600 Ohms (Balanced)
Magnitude Freq. Response	20Hz to 20kHz @ -3dB
SNR (Weighted)	80dB @ 1kHz
Connector	Terminal Block

### Digital Audio

Signal Format	AES or SPDIF
Channel Capacity	1
Audio Sampling Rate	32 KHz, 44.1 KHz, 48 KHz
Input/Output Impedance	110 Ohms or 75 Ohms
Connector	Terminal Block

### Physical

Dimension: (H x W x D)	
Standalone	1.72" x 4.36" x 8.75"
Card Cage Plug-in Card	5.24" x 0.94" x 11.6"
Power	12 VDC @ 0.8 A
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, Optical Link, Audio Activity

### Optical

Fiber Type	Multimode and Singlemode
Number of Fibers	1
Wavelength	1310 and/or 1550 nm
Fiber Optic Connector	ST (Multimode) FC (Singlemode)

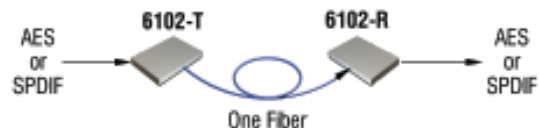
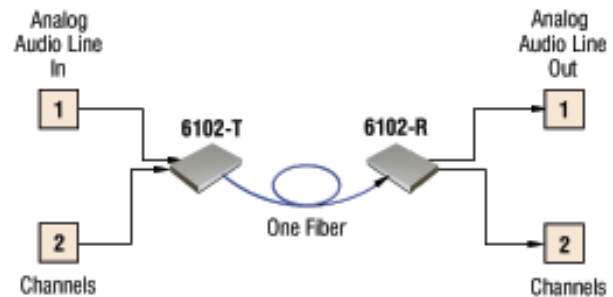
### Optical

#### Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	12	2	1.2
Singlemode Fiber	26	40	25
Singlemode Long Distance	26	70	43

- (1) These are typical values for the 6102 Series. The actual values may vary.  
 (2) These are typical distance coverage figures. The maximum distance coverage may be greater than these typical numbers, depending on fiber type, fiber bandwidth, connector splicing losses, chromatic dispersion, environmental factors, etc.

### Application



### Doing More With One Fiber

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.