



6100E

Digital Fiber Optic Multi-Channel Audio Transport System

$\frac{A}{4}$ or $\frac{A}{8}$ or $\frac{A}{16}$

**“Multiple Channel Audio
Over ONE Fiber”**



**“High performance and affordable solutions for your
multi-channel, audio transmission.”**

Applications

Remote Studio Audio

Remote Mixer Output

Audio Retrieval and Distribution

Features

Digital Encoded Fiber Optic Links

Accommodate 4, 8, 16, or 32 Audio Channels

Reliable Transmission Over Multimode or Singlemode Fiber

1 Fiber Solution

CWDM Optics Available

The 6100E Series provides simultaneous transmission of multiple channels of digitized audio over one or one pair of fiber. The standard 6100E system comes with 4-, 8-, and 16-channel versions and transmits these audio channels in one direction. Models up to 32-channels are also available as a custom version. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

The 6100E 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 6100E system, enabling quick setup and trouble-free operation.

The 6100E 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 6100E 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



6100E

Digital Fiber Optic Multi-Channel Audio Transport System

Multimedia Transmission Systems
Security/Surveillance Transmission Systems



Audio

Channel Capacity	4, 8, or 16 (Standard) 32 (Custom)
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, 0dBm Input Level (Balanced)
Connector	Terminal Block

Physical

Dimension: (H x W x D)	
Standalone*	1.72" x 8.58" x 12.0"
Standalone**	1.72" x 17.03" x 12.0"
Card-cage Plug-in Card	5.24" x 0.94" x 11.6"
Power	+12 VDC @ 1.6 A (4 or 8-ch)
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, Optical Link, Audio Activity

* For 4- or 8-channel, and for 16-channel unidirectional

** For 16-channel bi-directional

Optical

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

Optical

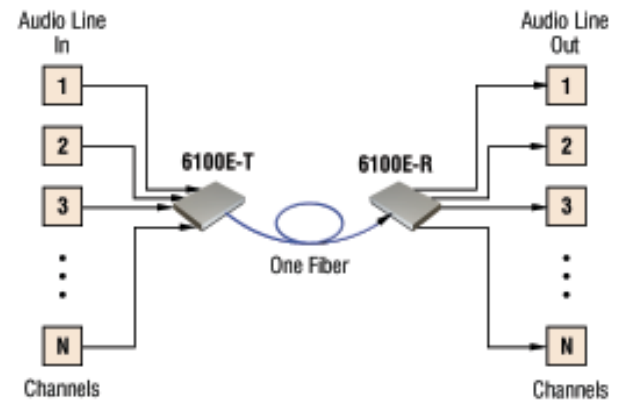
Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	13	3	2
Singlemode Fiber	25	45	28

(1) These are typical values for the 6100E 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



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

