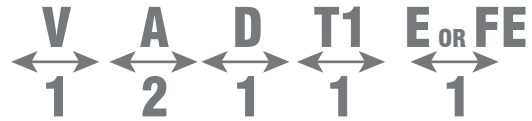




6900

*Digital Fiber Optic Extender for Video, Audio, RS-232/
RS-422, Ethernet/Fast Ethernet, and/or T1*



**“Video + Audio + Data
+ Ethernet/Fast Ethernet
+ T1”**



**“High performance and affordable solutions for your
diversified Video + Audio + Data +
Ethernet + T1 transmission.”**

Applications

- Remote Multimedia Studio
- Distance Learning
- Audio/Video/Data Conferencing
- Media Retrieval and Distribution

Features

- Digital Encoded Fiber Optic Links
- For 1 Video, 2 Audio, 1 Serial Data,
1 Ethernet/Fast Ethernet,
and/or 1 T1 Channel
- Duplex Transmission
- Multimode or Singlemode
- 1 Fiber Solution also Available (WDM)**

If your application involves Ethernet/Fast Ethernet and/or T1 data with video/audio/data content, BCI's 6900 Series is the right choice. It is the only product in the world that can move your video, audio, RS-232/RS-422, Ethernet/Fast Ethernet and/or T1 simultaneously. The 6900 system provides simultaneous transmission of one (1) NTSC video channel, one (1) stereo audio channel, one (1) RS-232/RS-422, one (1) Ethernet or Fast Ethernet channel, and/or one (1) T1 channel over a multimode or singlemode fiber pair. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

The 6900 allows you to carry diversified multimedia data traffic for remote audio/video/voice/data conferencing over a single fiber pair, thus saving on installation costs and reducing the number of installed repeaters. All channels are bidirectional.

The 6900 features a digital fiber optic transmission technology, capable of providing sharper video and crisper audio, little or no maintenance, high functional reliability, and low operating costs. No user adjustments are required in the 6900 system, enabling quick setup and trouble-free operation. They are also easily monitored by separate LED indicators for power, optical link, and channel activity.

Due to its digital transmission design, the 6900 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



6900

Multimedia Transmission Systems Security/Surveillance Transmission Systems

Digital Fiber Optic Extender for Video, Audio, RS-232/RS-422, Ethernet/Fast Ethernet, and/or T1

Video

Channel Capacity	1
Bandwidth	6 MHz
Video Level	1.0Vp-p @ 75 Ohms
Differential Gain	< 4 %
Differential Phase	< 2°
SNR (Weighted)	58-65 dB
Connector	BNC

Audio

Channel Capacity	2
Operating Mode	Unbalanced
Input/Output Impedance	10K Ohms/600 Ohms (Unbalanced)
Max. Input/Output Level	5 Vp-p @ 10K Ohms (Unbalanced)
Magnitude Freq. Response	20Hz to 20kHz @ -3 dB
SNR (Weighted)	> 70dB @ 1kHz, 4 Vp-p Input Level (Balanced)
Connector	RCA

Serial Data

Channel Capacity	1
Signal Format	RS-232 or RS-422
Operating Mode	Full Duplex with Handshake
Data Rate	Up to 128kbps (RS-232) Up to 1 Mbps (RS-422)
Connector	DB9

Ethernet/Fast Ethernet

Standard	IEEE 802.3 10 Base-T or 100Base-TX
Connector	RJ45

T1

Format	AMI or B8ZS (for T1)
Data Rate	1.544 Mbps (T1)
Connector	DB15

Physical

Dimension: (H x W x D)	1.72"x 16.7" x 13.6"
Power	95-240 VAC @ 1.8 A max.
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, Optical Link, Channel Activity

Optical

Fiber Type	Multimode and Singlemode
Number of Fibers	2 or 1
Wavelength	850, 1310 and/or 1550 nm
Fiber Optic Connector	ST (for Multimode) FC (for Singlemode)

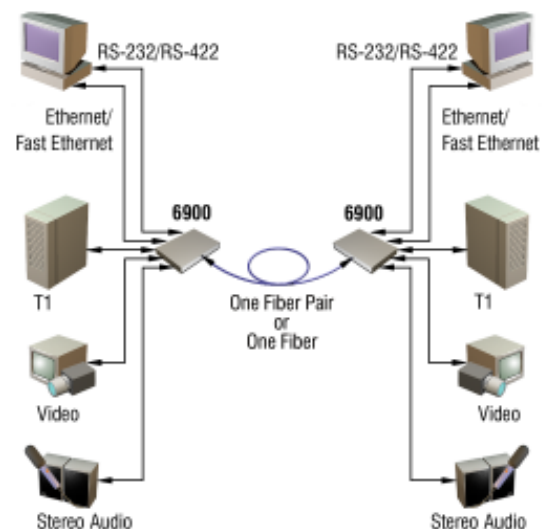
Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	12	3	2
Singlemode Fiber	25	40	25

(1) These are typical values for the 6900 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.

