



1200E

Fiber Optic Serial Digital Audio (AES/EBU) Transport Systems

DA
4,8 → or ←
4,8

**“Multi-channel Synchronous
or Asynchronous AES/EBU”**

**“With Options to Support
Analog Audio Conversion”**



**“High performance and affordable solutions for your
broadcast serial digital audio transmission.”**

Applications

ENG/EFP Serial Digital Audio
Transmission

Tape Deck to Digital Audio Tape
Transmission

Pre-production and Post-production
Serial Digital Audio Links

Features

Transport 4 or 8 Serial Digital Audio
(AES/EBU) Over One Fiber

Addresses Sync and Async Audio

Cost Effective Solution for Remote
Serial Digital Audio Transport

1 Fiber Solution also Available (WDM)

CWDM Optics Available

The 1200E Series is a high performance, yet affordable, Fiber Optic Serial Digital Audio Transport System. The standard 1200E system is designed to transport four (4) or eight (8) channel AES/EBU serial digital audio signals over long distance through either singlemode or multimode fiber. The 1200E design accepts synchronous or asynchronous AES/EBU channels of 44.1 or 48 kHz frequency and many versions of optical transmitter and receiver combinations are available to address different distance requirements.

Because of the use of advanced digital fiber optic transmission technology, no user adjustments are required in the 1200E system, enabling quick setup and trouble-free operation. The 1200E is designed for compliance with AES3-1992 (ANSI S4.40-1992, IEC 958), a standard format and protocol for serial transmission of digital audio.

The 1200E comes 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 digital serial audio (terminal block connector) and fiber connection (FC-type for the singlemode version, or ST-type for the multimode version). The 1200E can be easily monitored by front panel LED indicators for power, optical link, and channel activity.

The 1200E design 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 *plus* IP



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Broadcast Transmission Systems



Digital Audio

Signal Format	AES/EBU under AES3-1992 (ANSI S4.40-1992, IEC 958)
Channel Capacity	4 or 8
Signal Resolution	24 bits per channel
Audio Sampling Rate	44.1 KHz, 48 KHz
Input/Output Impedance	110 Ohms or 75 Ohms
Jitter	< 20 ns
Signal Level	2.3 Vp-p (110 Ohms) 0.9-1.1 Vp-p (75 Ohms)
Connector	Terminal Block

Physical

Dimension: (H x W x D)	
Standalone Unit	1.72" x 8.60" x 12.00" (1204 & 1208 unidirectional) 1.72" x 19.00" x 12.00" (1208 bi-directional)
Card-cage Plug-in Card	5.24" x 0.94" x 11.6"
Power Level	12 VDC @ 1A
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, Optical Link, Audio Activity

1200E Edge Support*

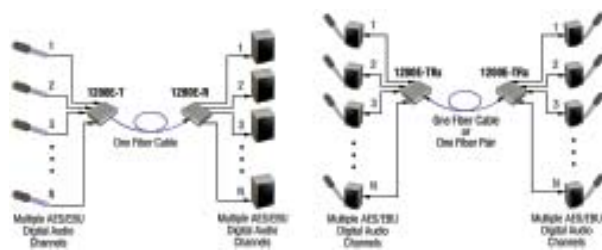
Audio Conversion	Analog-to-Digital or Digital-to-Analog Audio
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*Please refer to 1200E-Edge data sheet for detailed technical specifications.

Optical

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

Application



Typical Power Budget and Transmission Distance (1204E/1208E)

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	14	2	1.2
Singlemode Fiber	14	25	15
Singlemode Long Distance	20	60	37

(1) These are typical values for the 1200E 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.

Ordering Information

1204E-T-M-SC	Transmitter, Multimode, 4-ch, 1-Fiber	→ 4AES
1204E-R-M-SC	Receiver, Multimode, 4-ch, 1-Fiber	
1204E-TRX-M-SC	Transceiver, Multimode, 4-ch, 2-Fiber	↔ 4AES
1208E-T-M-SC	Transmitter, Multimode, 8-ch, 1-Fiber	→ 8AES
1208E-R-M-SC	Receiver, Multimode, 8-ch, 1-Fiber	
1208E-TRX-M-SC	Transceiver, Multimode, 8-ch, 2-Fiber	↔ 8AES

(Change -M to -S for Singlemode)

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