



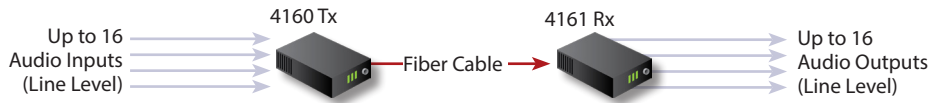
FiberLink® 4160 Analog Audio Series



Sixteen independent audio channels digitally transmitted over one fiber with optional redundancy

The FiberLink 4160 Series digitally transmits sixteen independent audio channels over one multimode or single mode fiber at 850, 1310 or

1550 nm, with optional redundancy. It is ideal for Rental, Staging, Theater, Stadiums, Theme Parks and Broadcast applications.



FEATURES

Transmits over one multimode or single mode fiber at 850, 1310 or 1550 nm

Optional redundant optical input/output

System consists of transmitter and receiver unit

No adjustments; pure digital processing and transmission

24 bit/96 kHz sampling; maximum audio level +24 dBu

20 Hz to 20 kHz frequency response

Line level, balanced or unbalanced audio operation

Indicator LEDs monitor audio signals and power

Wide range internal power supply

Unit stands 1 RU high

Rackmount ears are included

SPECIFICATIONS

General Specifications

LED Indicators	Power; Audio Present (per channel)
Power Requirements*	95-250 volts AC, 47-63 Hz
Operating Temperature Range	-35° to +55° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	1.75 H x 16.75 W x 10 D (inches) 44 H x 425 W x 254 D (mm)
	Unit stands 1 RU high
Weight	Approximately 5 lbs.; 2.25 kg

Audio Specifications

Number of Audio Channels	16, balanced or unbalanced
Frequency Response	20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%; 20 Hz - 20 kHz
Channel Phase Differential	0.1°
System Latency	200 uS + fiber cable propagation delay (typically 5 us/km of fiber)
Input Impedance	600 Ohms terminated; 24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removeable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
850 MM	0-20	0-2
1310 MM	0-25	0-10
1310 SM	0-23	0-55
1550 SM	0-25	0-80

SM = Single Mode Fiber

MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.



UPDATED 07/30/2016

All specifications subject to change without notice. ©2016

Ordering Information

Part Number	Description	Fiber Cores
4160-Sz ₂ -y ₁ y ₂ -pp	Transmitter, Box Version	1
4161-Sz ₂ -y ₁ y ₂ -pp	Receiver, Box Version	1

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

z₁ = optical connector type for main output

for main output (4160) and main input (4161). An option **must** be specified.
S - ST connector

y₁ = wavelength selection

(4160) and main input (4161). An option **must** be specified.
1 - 850 nm multimode
3 - 1310 nm multimode
7 - 1310 nm single mode
9 - 1550 nm single mode

z₂ = optical connector type for optional second output (4160) and input (4161).

N - No second input/output
input/output
S - ST connector

y₂ = wavelength selection for optional second/redundant output (4160) and input (4161).

0 - No second input/output
1 - 850 nm multimode
3 - 1310 nm multimode
7 - 1310 nm single mode
9 - 1550 nm single mode

Sales



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