



4040 Audio Series

Four independent audio channels
digitally transmitted over one fiber

Ideal Applications:

Rental, Staging, Education, Broadcast



Signal	Channels	Direction
Audio	4	→

Features

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

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

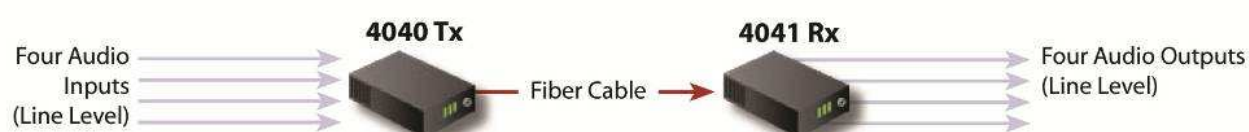
Indicator LEDs monitor audio signals and power

Wide range power supply allows operation from low voltage AC and DC sources

Card version fills one slot in 6000A card cage

System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.

RoHS Compliant



Ordering Information

Part Number	Description	Fiber Cores
4040-Bxy	Transmitter, Box Version	1
4040-Cxy	Transmitter, Card Version	1
4041-Bxy	Receiver, Box Version	1
4041-Cxy	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

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

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

Part Number Suffix Codes:

x:	1	850 nm Multimode	y:	S	ST Connector
	3	1310 nm Multimode		F	FCPC Connector
	7	1310 nm Single Mode			
	9	1550 nm Single Mode			

Sales



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Audio Specifications

Number of Audio Channels	4, balanced or unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
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	$\pm 0.1^\circ$
System Latency	200 uS + fiber cable propagation delay (typically 5 uS/km of fiber)
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis

General Specifications

LED Indicators	Power; Audio Present (per channel); Alarm LED (card version only)
Power Requirements*	9-24 volts AC or DC, 5 watts
Operating Temperature Range	-35° to +60° C
Relative Humidity	10%-90% (non-condensing)
Optical Connectors	ST or FCPC
Operating Wavelength	850, 1310 or 1550 nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.



4040 Audio Series



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.