



## 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-Byz	Transmitter, Box Version	1
4040-Cyz	Transmitter, Card Version	1
4041-Byz	Receiver, Box Version	1
4041-Cyz	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:

<b>y:</b>	1	850 nm Multimode	<b>z:</b>	S	ST Connector
	3	1310 nm Multimode		F	FCPC Connector
	7	1310 nm Single Mode			
	9	1550 nm Single Mode			

### Sales



**CSI** Communications  
Specialties, Inc.

631-273-0404 | [commspecial.com](http://commspecial.com)  
[info@commspecial.com](mailto:info@commspecial.com)



## 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.

## Want to learn more about fiber?

Log on to [commspecial.com](http://commspecial.com) for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!



Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

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[info@commspecial.com](mailto:info@commspecial.com)

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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	±0.1°
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
MTBF	83,000 Hours

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