Model 2237

Fiber Optic Audio Link

Models 2237-T and 2237-R provide one-way stereo audio over a single fiber. Typical applications include paging systems, music distribution, and control with audio tones.

The 2237-T has 1/8" (3.5mm) microphone input and stereo line level phono jack inputs. The 2237-T digitizes the audio input into 16-bit samples at 48KHz rate. The microphone input is copied to both channels, the two line inputs remain in respective channels. The digitized stereo audio is transmitted across a single fiber and received at the 2237-R. The 2237-R converts the digitized audio back to analog. The 2237-R has 1/8" headphone jack, line level phono jacks, and speaker phono jacks.

The 2237-T has volume adjustment to maximize the use of the digitized channel. The 2237-R has optical signal loss LED. Both the 2237-T and 2237-R have mute buttons.

Several 2237-R units can be connected to a single 2237-T with the use of a fiber splitter, S.I.Tech Model 9024.

Audio Bandwidth: 10 Hz to 20 KHz
THD: Better than 1%
MIC Input: 350mV rms max into 6 Kohms
Line Input: 2V rms max into 10 Kohms
Headphone Output: 1V rms max
Line Outputs: 0.9V rms into 10 Kohms,
0.7V rms into 600 ohms
Speaker Outputs: 1W max into 8 ohms
Optical Power Budget: 10 dB
Operating Wavelength: 820 nanometers (1300nm optional)
Optical Interface: ST (SMA optional)
Operating Temperature: 0°C to 50°C
Input Power: 110 VAC 50/60 Hz,
Optional 230 VAC
Optional 12-24 VDC
Metal Enclosure: 7.375" X 7.625" X 1.875"
(18.7 X 19.4 X 4.8 cm)
Weight: 2lbs. (1 kg)

Operating Distance for Fiber Optic Cable

Fiber Size (Microns)	Attenuation (dB/Km)			Distance (Meters)			Distance (Feet)		
	Wavelength (nm)			Wavelength (nm)			Wavelength (nm)		
	850	1300	1550	850	1300	1550	850	1300	1550
50	3.0	1.0	-	2000	6000	-	6600	20000	-
62.5	4.0	1.0	-	2000	6000	-	6600	20000	-
10 SM	-	0.35	0.25	-	10000	12000	-	33000	40000

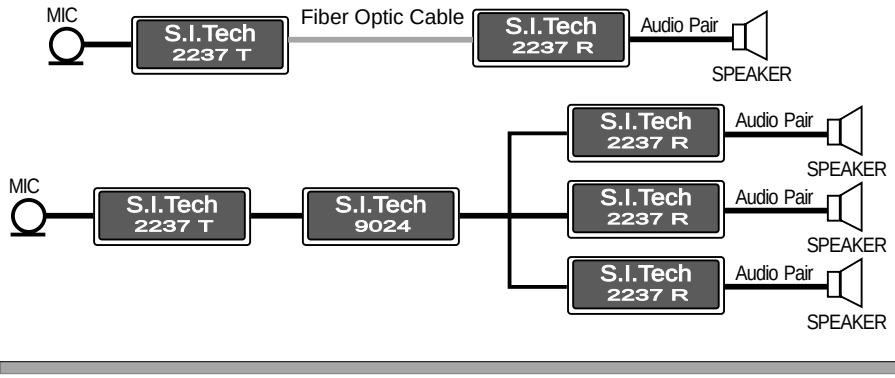
SM - Single mode option - 1300nm

2237-T Back Panel

2237-R Back Panel

Meets FCC requirements of Class A, Part 15 Computing Devices Standard.
Specifications subject to change without notice.

APPLICATION EXAMPLES



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