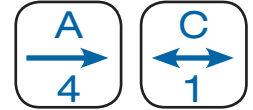


4-channel 24-bit audio multiplexer
+ one bi-directional contact closure



Description

The ComNet™ FVT/FVRXA4C1 series audio multiplexer provides the transmission of four audio signals and one bi-directional contact closure over one multimode or single mode optical fiber. The modules use 24-bit 96kHz sample rate digital encoding for superior transmission of balanced line-level audio. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required. Bi-color (Red/Green) LED indicators confirm equipment operating status. Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

Applications

- Transmission of Broadcast Audio
- Recording Studios and Post-Production Facilities
- Elimination of EMI/RFI Interference in Audio Cables
- Optical Isolation for Elimination of Ground Loop Noise

Features

- 24-bit 96kHz Digital Transmission
- One Bi-directional Contact Closure
- 20Hz - 18kHz Audio Bandwidth
- 600 Ohms Audio Input Impedance
- No In-field electrical or optical adjustments
- Bi-color (Red/Green) LED status indicators confirm equipment operating status
- Transmits Balanced Line-Level Audio up to +6dBm
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use - ComFit
- Distances up to 30 miles (48 km) without repeaters
- Automatic resettable fuses on all power lines
- Lifetime Warranty



specifications

AUDIO

Input/Output Channels: 4 (balanced)
 Audio Input/Output Signal: 4.4 volt pk-pk (+6dBm)
 Bandwidth: 20Hz - 18kHz
 Total Harmonic Distortion: 0.05%
 Signal-to-Noise Ratio (SNR): 85dB (Typical)

CONTACT

Contact Interface: Response Time: 0.5 msec
 Input: Dry Contact Closure
 Output: SPST Relay, 0.5 A Contact Rating - normally open

WAVELENGTH 1310 nm/1550 nm, Multimode and Single Mode

NUMBER OF FIBERS 1

LED INDICATORS - Link - Audio Channels 1-4
 - Contact Closure - Power

CONNECTORS

Optical: ST
 Power: Terminal Block
 Audio: Terminal Block

ELECTRICAL & MECHANICAL

Power: 8-15 VDC @ 2 W
 Surface Mount: From Rack
 Rack Mount: 1
 Number of Rack Slots: Automatic Resettable
 Current Protection: Solid-State Current Limiters
 Circuit Board: Meets IPC Standard
 Size (in./cm) (L×W×H): 6.1 × 5.3 × 1.1 in.,
 (15.5 × 13.5 × 2.8 cm)
 Shipping Weight: <2 lb./0.9 kg

ENVIRONMENTAL

MTBF: >100,000 hours
 Operating Temp: -40° C to +75° C
 Storage Temp: -40° C to +85° C
 Relative Humidity: 0% to 95% (non-condensing)[†]

[†] May be extended to condensation conditions by adding suffix 'C' to model number for conformal coating.



PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE [‡]	# RACK SLOTS
FVTXA4C1M	4 Channel Audio Transmitter (1310 nm/1550 nm)	1	Multimode 62.5/125µm	16 dB	3 km (2.5 miles)	1
FVRXA4C1M	4 Channel Audio Receiver (1310 nm/1550 nm)					
FVTXA4C1S	4 Channel Audio Transmitter (1310 nm/1550 nm)	1	Single Mode 9/125µm	16 dB	48 km (30 miles)	1
FVRXA4C1S	4 Channel Audio Receiver (1310 nm/1550 nm)					
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)					
Options	Add 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory)					
	DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)					

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended.

[‡]Distance may be limited by optical dispersion.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

