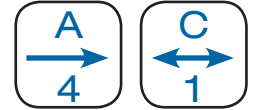


4-channel 24-bit audio multiplexer
+ one bi-directional contact closure



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:	1
Current Protection:	Automatic Resettable 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.

