

2 bi-directional audio channels
+ one bi-directional contact closure



Description

The ComNet™ FVT/FVRXA2C1 series audio multiplexer provides the transmission of two bi-directional 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

- Point-to-Point Audio Communication
- Push-to-Talk Applications

Features

- Two bi-directional Audio Channels
- One bi-directional Contact Closure
- 24-Bit 96kHz Digitally Encoded Transmission
- 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 48 km (30 miles) without repeaters
- Automatic resettable fuses on all power lines
- Lifetime Warranty



FVT/FVRXA2C1(M)(S)

2 bi-directional audio channels
+ one bi-directional contact closure

specifications

AUDIO

Input/Output Channels: 2 (balanced)
 Audio Input/Output Signal: 4.4 volt pk-pk (+6dBm)
 Bandwidth: 20Hz - 18kHz
 Total Harmonic Distortion: 0.02%
 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

- Audio Input Channels 1-2
 - Audio Output Channels 1-2
 - Link - Power - Contact Closure

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
 Meets IPC Standard
 Circuit Board: 6.1 x 5.3 x 1.1 in.,
 (15.5 x 13.5 x 2.8 cm)
 Size (in./cm) (LxWxH)
 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
FVTXA2C1M	2-Ch. Bi-Directional Audio Transmitter (1310 nm/1550 nm)	1	Multimode 62.5/125µm	16 dB	3 km (2.5 miles)	1
FVRXA2C1M	2-Ch. Bi-Directional Audio Receiver (1310 nm/1550 nm)					
FVTXA2C1S	2-Ch. Bi-Directional Audio Transmitter (1310 nm/1550 nm)	1	Single Mode 9/125µm	16 dB	48 km (30 miles)	1
FVRXA2C1S	2-Ch. Bi-Directional Audio Receiver (1310 nm/1550 nm)					

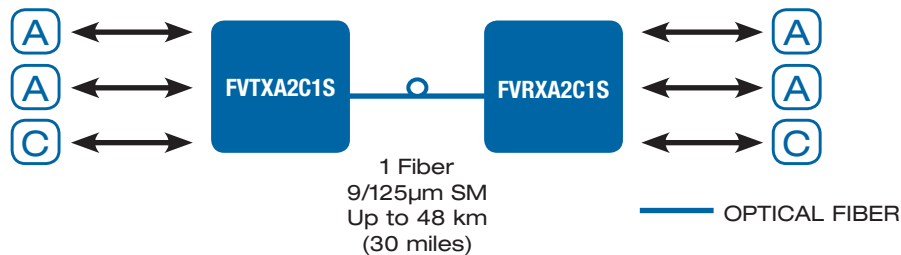
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)
Options	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)

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.



3 CORPORATE DRIVE | DANBURY, CT 06810 | USA
 T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET
 8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE
 T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET