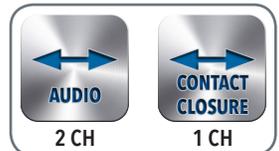
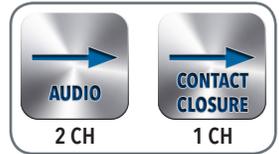


FTA/FRA2C1(M,S)1 and FXA2C1(M,S)1



OR



The ComNet™ FTA/FRA2C1 Series audio multiplexer provides the transmission of two audio signals and one contact closure over one multimode or single mode optical fiber. A bidirectional model, FXA2C1(M,S)1, is also available. 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 required. Bi-color LED indicators confirm operational status. Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack mounted.

FEATURES

- › Two simplex or duplex audio channels
- › One simplex or duplex contact closure
- › 24-bit 96kHz digitally encoded transmission
- › 20Hz - 20kHz audio bandwidth
- › 600Ω audio input impedance
- › No in-field electrical or optical adjustments required
- › Transmits balanced line-level audio up to +8.5dBm
- › Distances up to 48km (30mi) without repeaters
- › Automatic resettable fuses on all power lines

- › Bi-color LED status indicators confirm operating status
- › Hot-swappable rack modules
- › Interchangeable between stand-alone or rack mount use - ComFit
- › Lifetime Warranty

APPLICATIONS

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

SPECIFICATIONS

Audio

Input/Output Channels	2
Input/Output Signal	6 V pk-pk (+8.5 dBm)
Bandwidth	20 Hz - 20 kHz
Total Harmonic Distortion	0.01%
Signal-to-Noise Ratio (SNR)	<90 dB (typical)

Contact

Interface	Response Time: 3 msec
Input	Dry Contact Closure
Output	SPST Relay, 0.2 A, 36 VDC Max Contact Rating, Normally Open

Number of Fibers

LED Indicators

1
Audio
Link
Contact Closure

Connectors

Power	Terminal Block
Optical	ST (Standard, other connectors available by request)
Audio	Terminal Block
Contact	Terminal Block

Power

Operating Voltage Range	8 to 15 VDC
Max Power Consumption	2 W

Electrical & Mechanical

Number of Rack Slots	1
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
Shipping Weight	<2 lbs/0.9 kg

Environmental

MTBF	>100,000 hours
Operating Temp	-40° C to +75° C
Storage Temp	-40° C to +85° C
Relative Humidity	5% to 95% (non-condensing) ¹

AGENCY COMPLIANCE

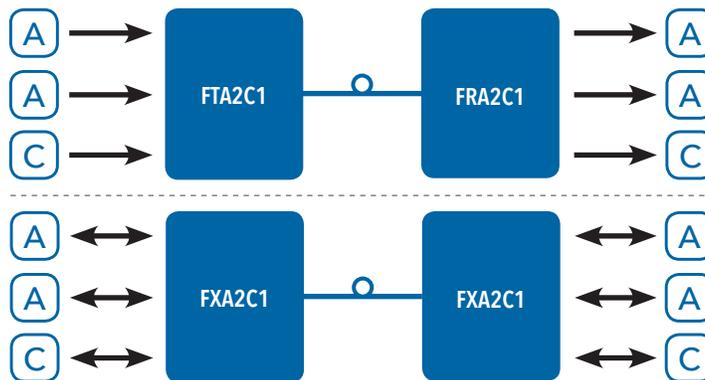


ORDERING INFORMATION

Part Number	Description	Wavelength	Fiber	Optical Power Budget	Max Distance
FTA2C1M1	2-Channel Audio Transmitter	1310 nm	Multimode 62.5/125µm	16 dB	3 km (2.5 mi)
FRA2C1M1	2-Channel Audio Receiver	1310 nm	Multimode 62.5/125µm	16 dB	3 km (2.5 mi)
FTA2C1S1	2-Channel Audio Transmitter	1310 nm	Single mode 9/125µm	23 dB	48 km (30 mi)
FRA2C1S1	2-Channel Audio Receiver	1310 nm	Single mode 9/125µm	23 dB	48 km (30 mi)
FXA2C1M1A	2-Channel Audio Transceiver "A" End	1310 nm/1550 nm	Multimode 62.5/125µm	16 dB	3 km (2.5 mi)
FXA2C1M1B	2-Channel Audio Transceiver "B" End	1550 nm/1310 nm	Multimode 62.5/125µm	16 dB	3 km (2.5 mi)
FXA2C1S1A	2-Channel Audio Transceiver "A" End	1310 nm/1550 nm	Single mode 9/125µm	23 dB	48 km (30 mi)
FXA2C1S1B	2-Channel Audio Transceiver "B" End	1550 nm/1310 nm	Single mode 9/125µm	23 dB	48 km (30 mi)
Included Accessories	DC Plug-in Power Supply, 90-264 VAC, 50-60 Hz (Included)				
Options	[1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (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. 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.

TYPICAL APPLICATIONS



Low Power Consumption