



INSTALLATION AND OPERATION MANUAL

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

2 AUDIO CHANNELS + 1 CONTACT CLOSURE

This manual serves the following ComNet Model Numbers:

FTA2C1M1
FRA2C1M1
FTA2C1S1
FRA2C1S1
FXA2C1M1A
FXA2C1M1B
FXA2C1S1A
FXA2C1S1B

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.

These extenders are designed for long-term, reliable operation in harsh industrial environments, and a fault-specific LED indicator is provided for rapidly ascertaining the operating status of the extender and the link. See **Figure 9** on **Page 5** for an explanation of LED indicators.

Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack mounted. See **Figure A** on **Page 6** for mounting instructions.

See **Figures 1 - 9** for complete installation details.

FIGURE 1 - FTA2C1 TRANSMITTER

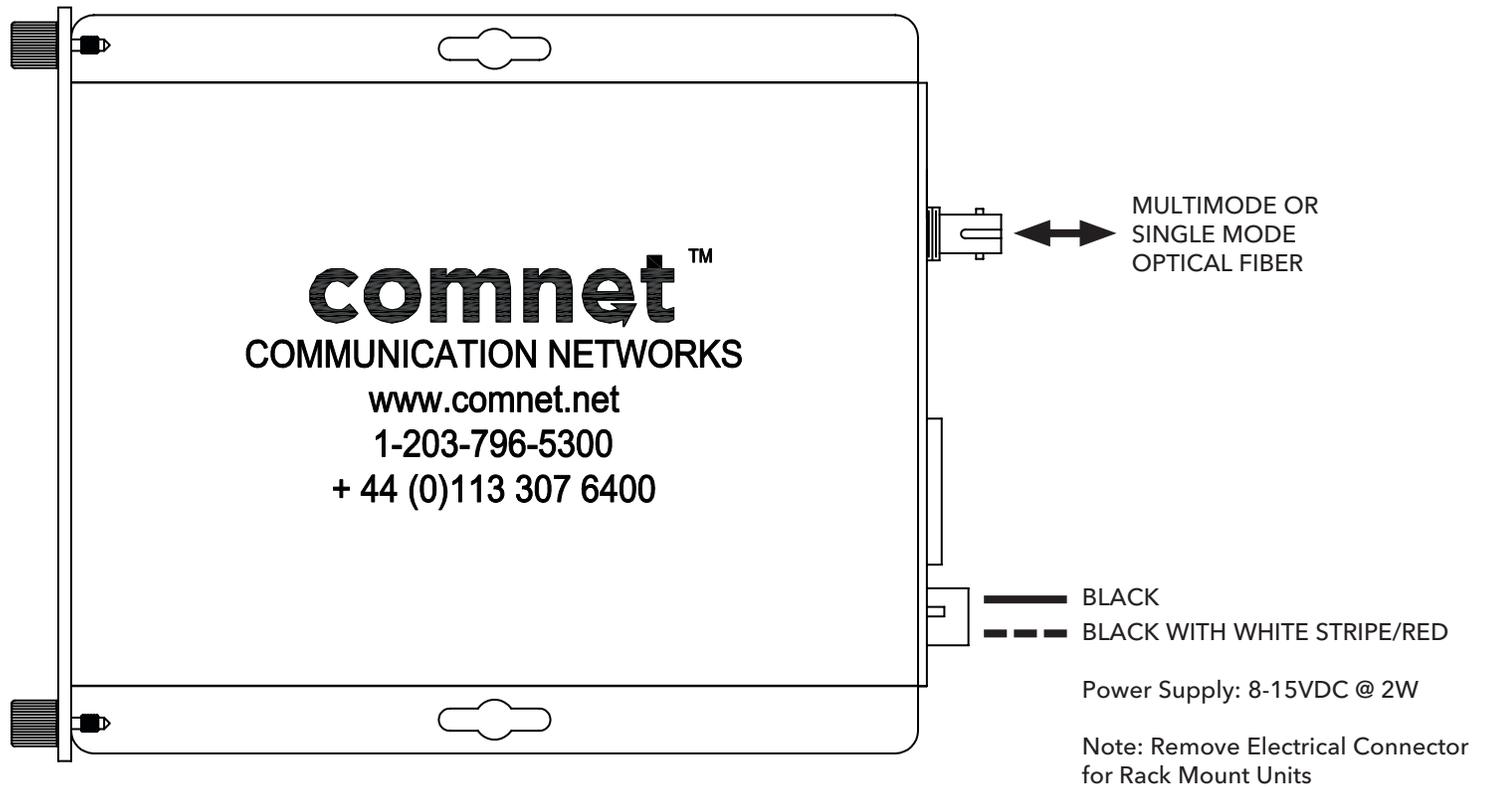


FIGURE 2 - FTA2C1 TRANSMITTER

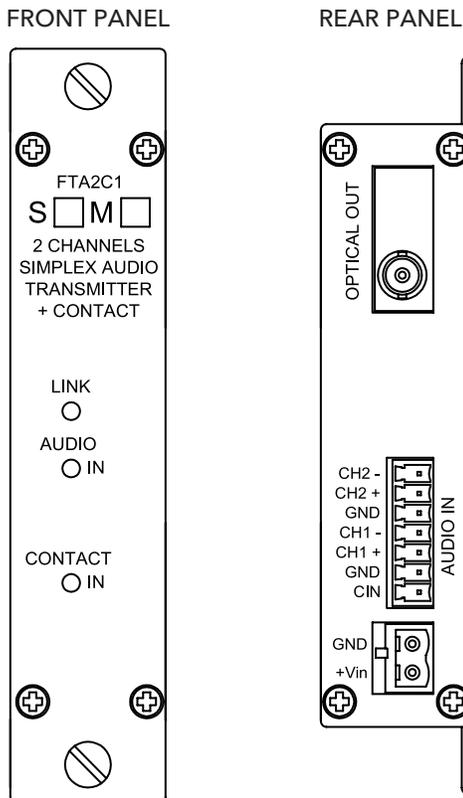


FIGURE 3 - FRA2C1 RECEIVER

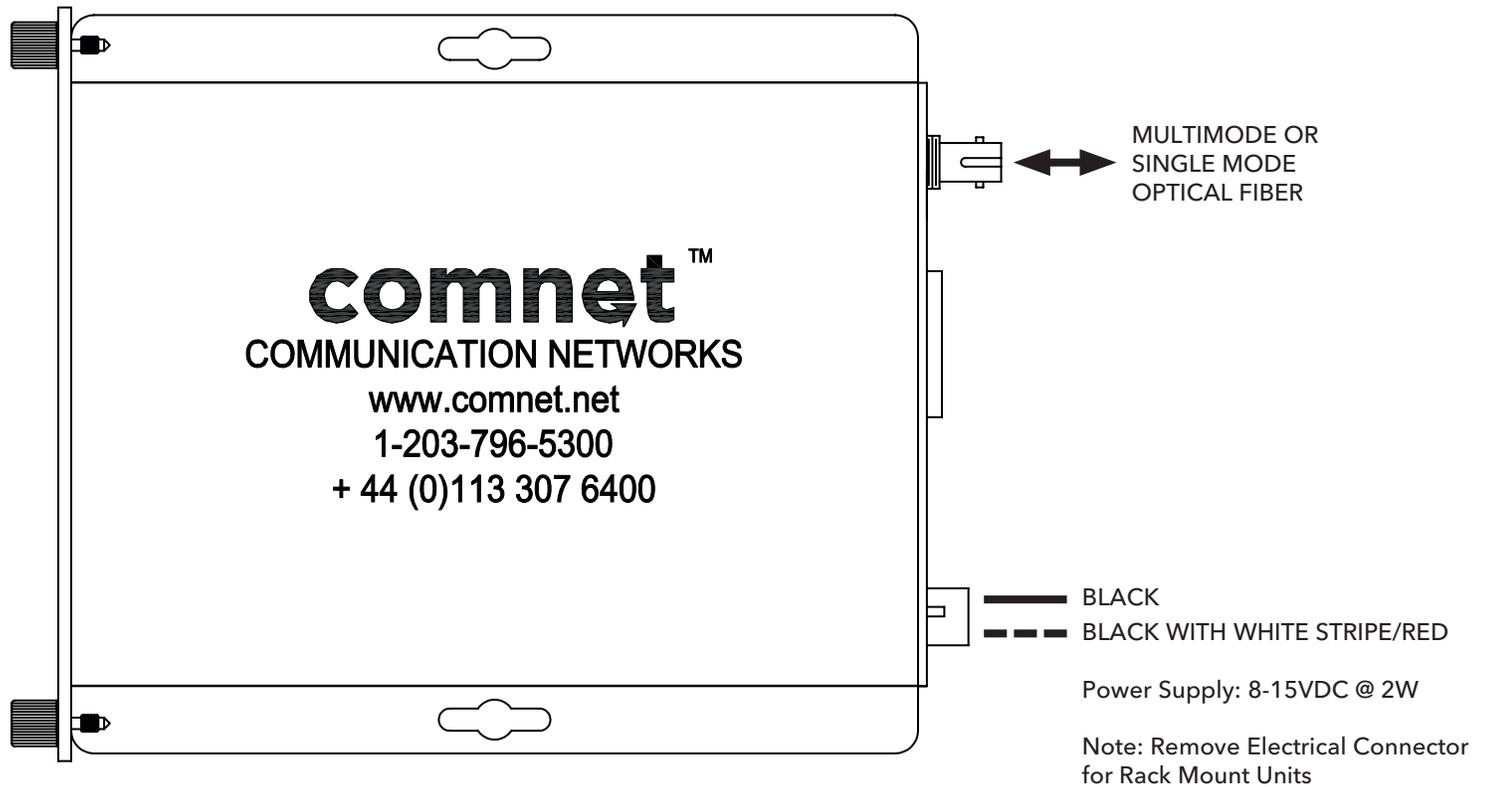


FIGURE 4 - FRA2C1 RECEIVER

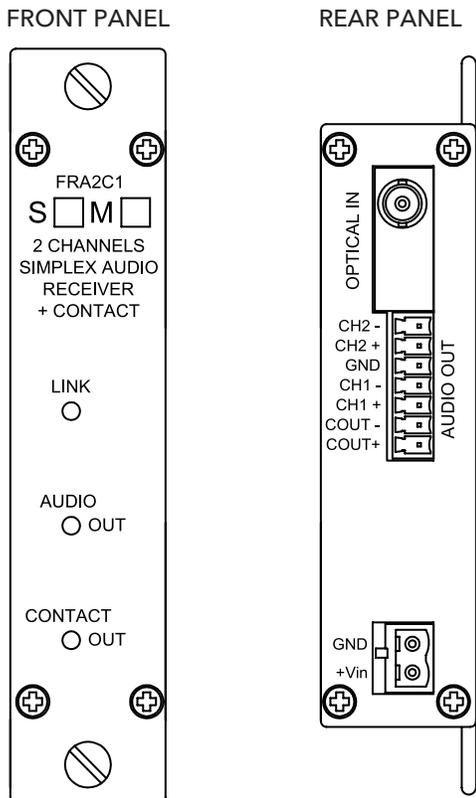


FIGURE 5 - FXA2C1 TRANSCEIVER

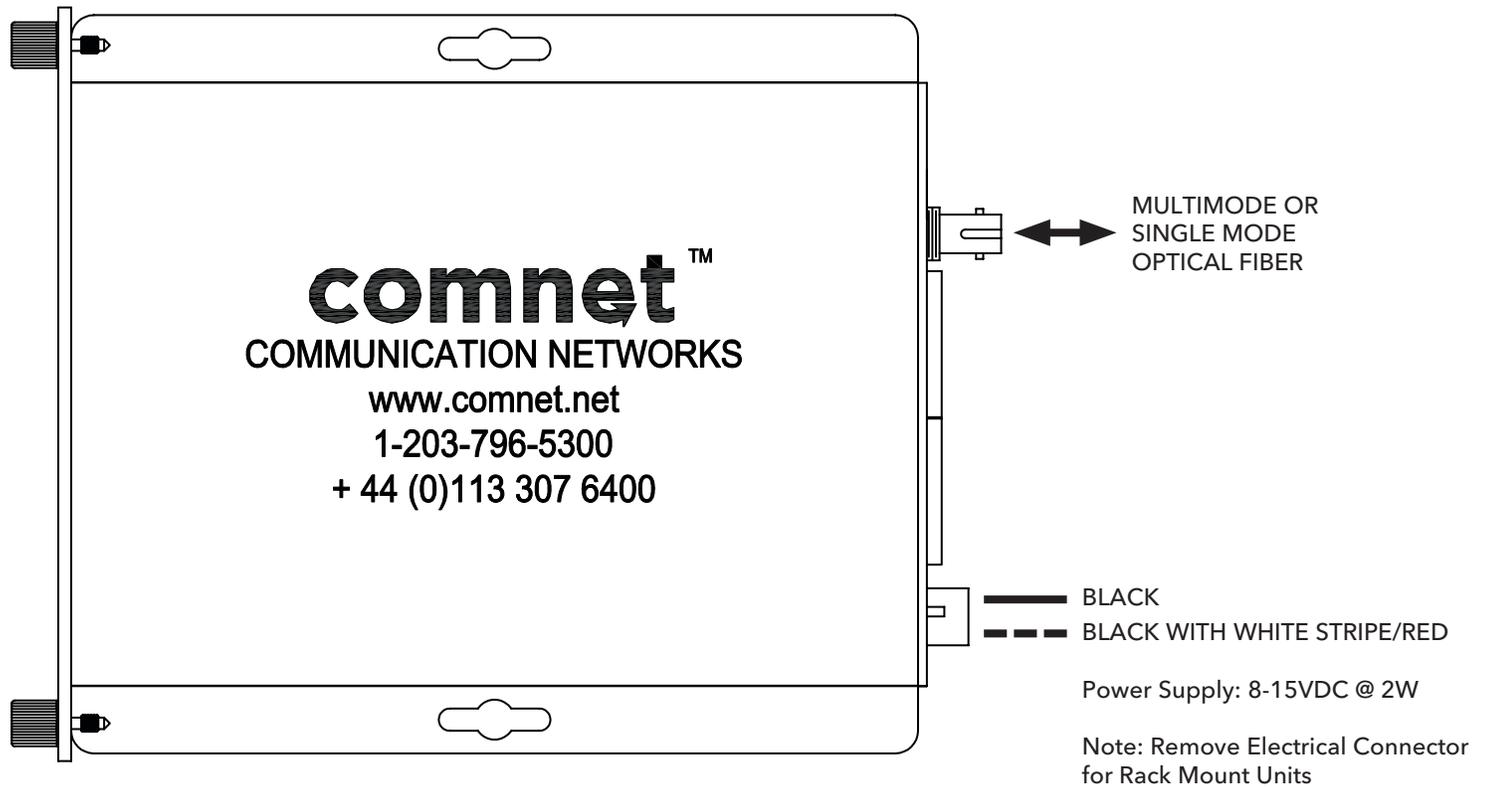


FIGURE 6 - FXA2C1 TRANSCEIVER

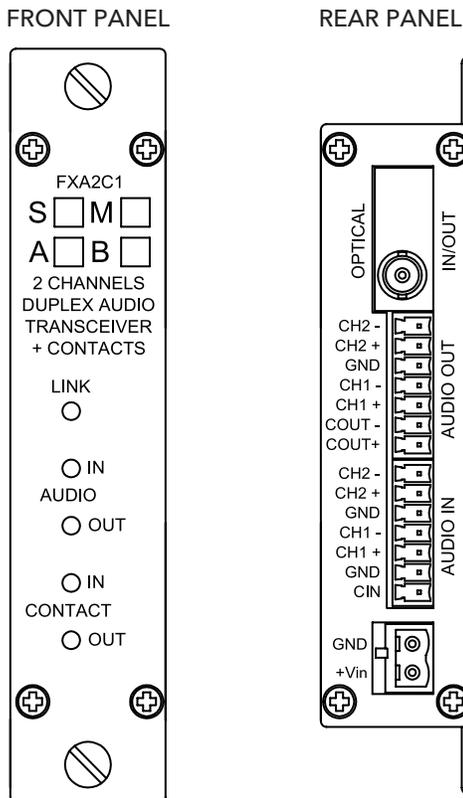


FIGURE 7 - AUDIO WIRING

Wiring panel terminal block is located on the back panel of each unit.

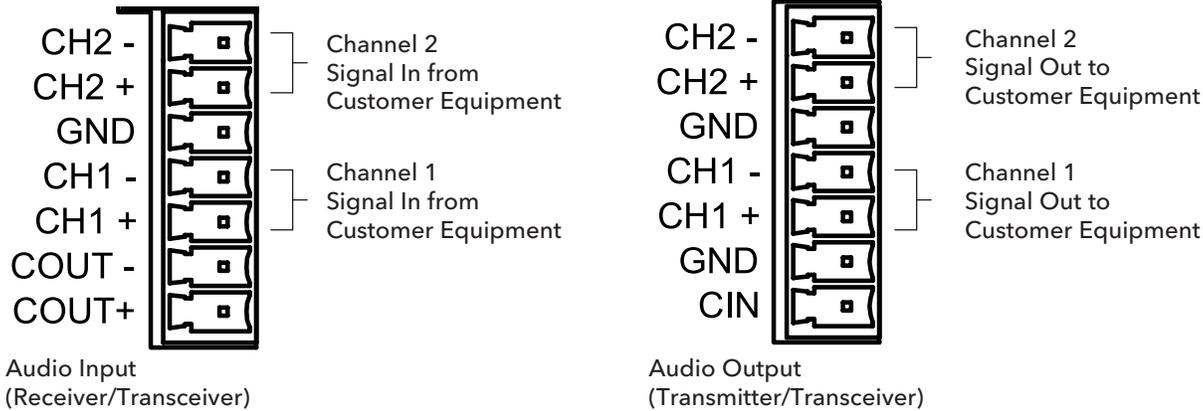


FIGURE 8 - CONTACT WIRING

Wiring panel terminal block is located on the back panel of each unit.

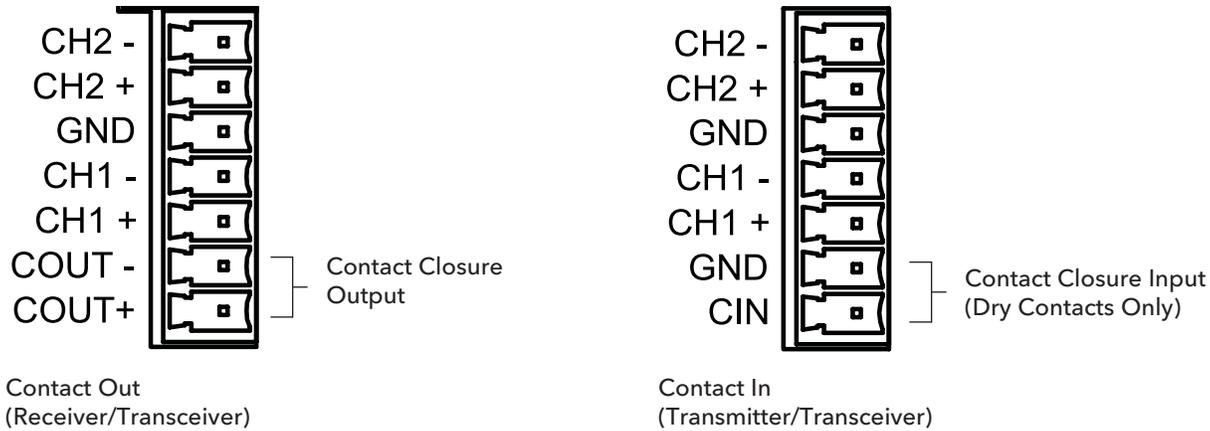


FIGURE 9 - LED INDICATORS

	LINK	AUDIO		CONTACT	
		IN	OUT	IN	OUT
RED	Communication link has not been established over fiber	–	–	Contact closure input is open	Contact closure output is open
GRN	Communication link has been established over fiber	LED intensity varies with audio signal level of either channel input	LED intensity varies with audio signal level of either channel output	Contact closure input is closed	Contact closure output is closed
OFF	Unit powered down	Low or no audio input level	Low or no audio output level	Unit powered down	

INSTALLATION CONSIDERATIONS

This fiber-optic link is supplied as a Standalone/Rack module. Units should be installed in dry locations protected from extremes of temperature and humidity.

C1-US, C1-EU, C1-AU OR C1-CH CARD CAGE RACKS

CAUTION: Although the units are hot-swappable and may be installed without turning power off to the rack, ComNet recommends that the power supply be turned off and that the rack power supply is disconnected from any power source. **Note:** Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

CAUTION: Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

WARNING: Unit is to be used with a Listed Class 2 power supply.

IMPORTANT SAFEGUARDS:

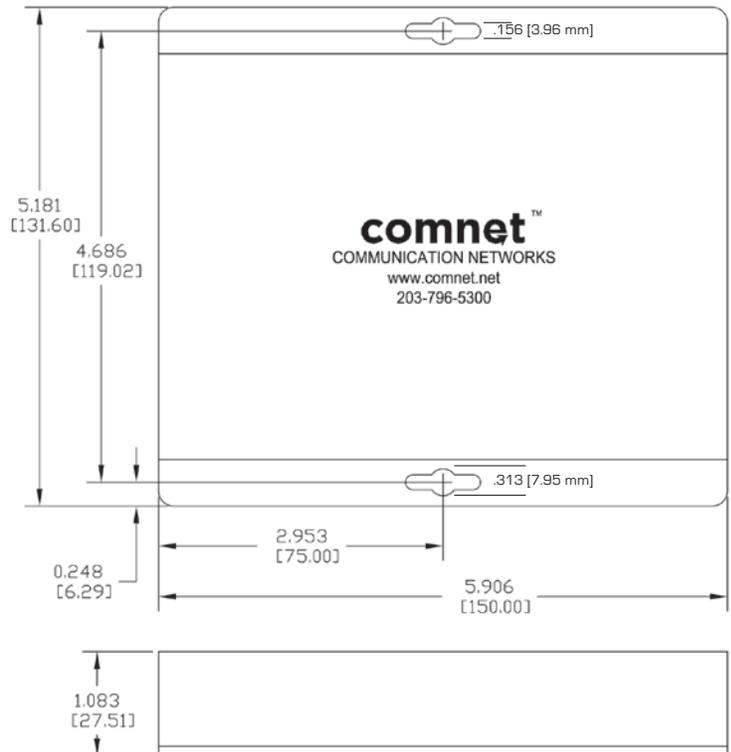
A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.



FIGURE A

Dimensions are for a standard ComNet™ one slot module.



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