



INSTALLATION AND OPERATION MANUAL

FVTR1D1A2C1(M)(S)1

10-BIT DIGITALLY ENCODED BI-DIRECTIONAL VIDEO
WITH 1 BI-DIRECTIONAL DATA CHANNEL,
2 BI-DIRECTIONAL 24-BIT AUDIO CHANNELS
AND 1 BI-DIRECTIONAL CONTACT CLOSURE

The FVTR1D1A2C1 is a bi-directional 10-bit video transmission system along with one channel of bi-directional data, two channels of bi-directional audio and one bidirectional contact.

The data channel is configured using a two position switch to operate as RS232, RS422 or RS485, either two (2) wire or four (4) wire. See **Figure 4** on **Page 3** for details.

The FVTR1D1A2C1 may be directly plugged into the ComNet Rack (Part #C1) or operated as a standalone module powered by the PS-9VDC power supply also provided with the module. See **Page 5** for mounting instructions.

The FVTR1D1A2C1 requires one optical fiber and may be supplied in a multimode (M) or single mode (S) version.

See **Figures 1 – 7** for complete installation details.

FIGURE 1 – FVTR1D1A2C1 TRANSCEIVER

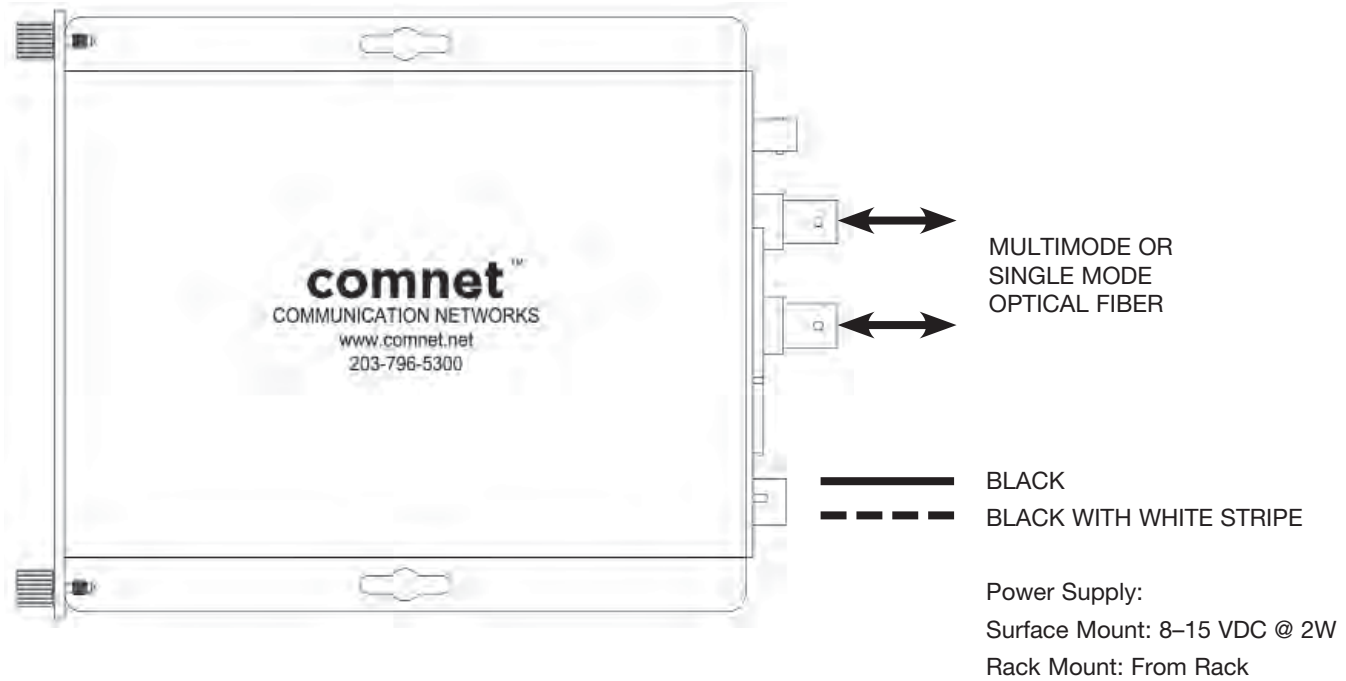
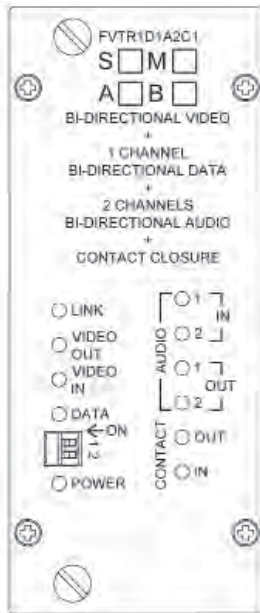
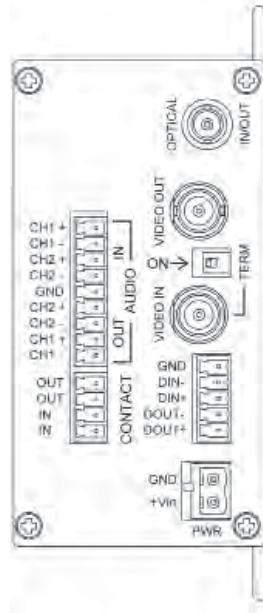


FIGURE 2 – FVTR1D1A2C1 TRANSCEIVER

FRONT PANEL



REAR PANEL



Video termination Switch
Set switch to TERM (Terminate) when video is not looping to other video devices or is the last device in a looping configuration.

NOTE: Remove Electrical Connector for Rack Mount Units

FIGURE 3 – SWITCH POSITIONS

The mode for each data channel is configured using a set of two switches on the front panel of the unit.

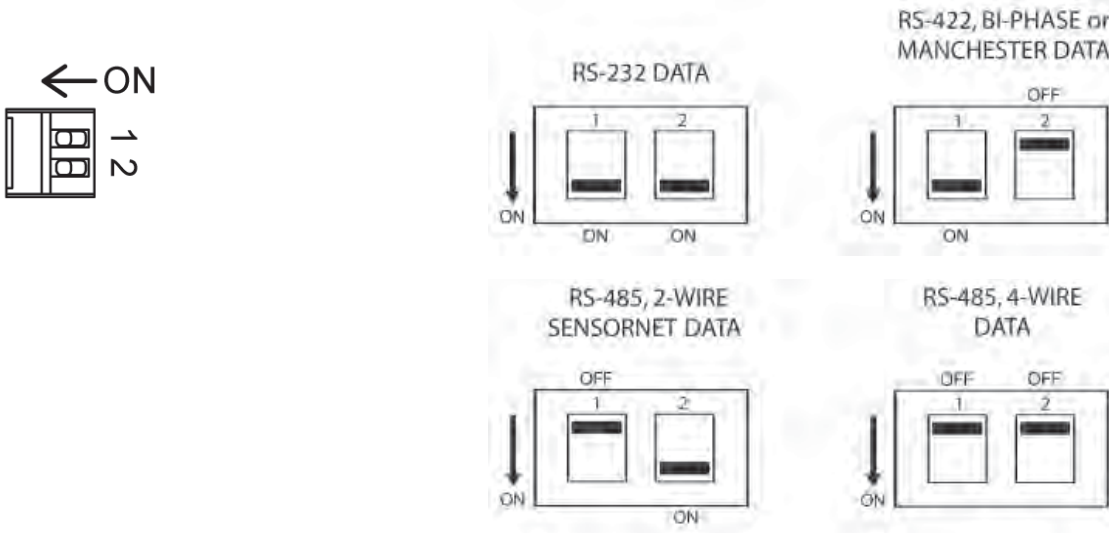


FIGURE 4 – DATA CONNECTIONS

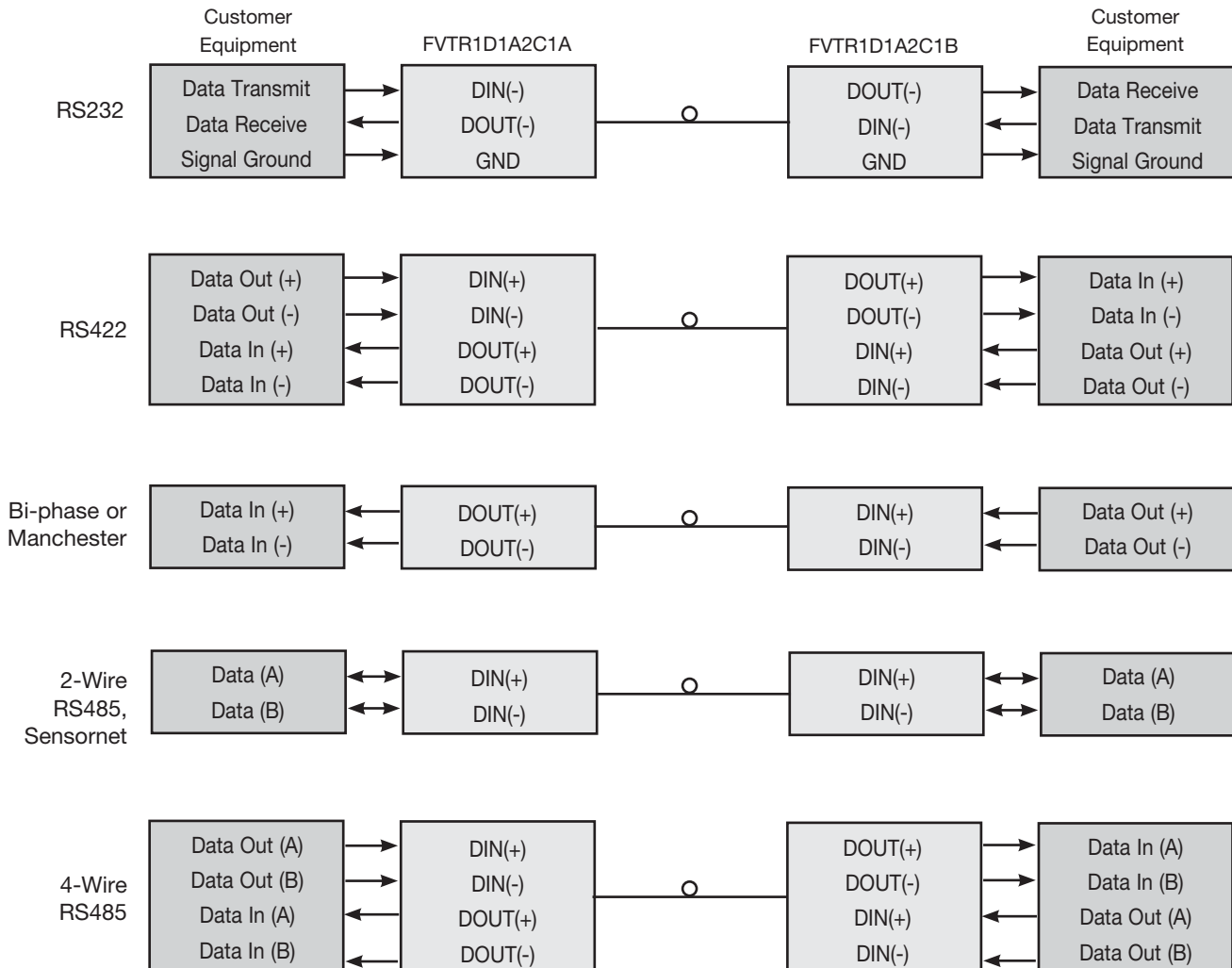
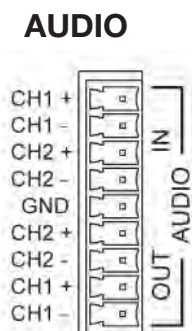


FIGURE 5 – AUDIO AND CONTACT CONNECTORS



CONTACT CLOSURE

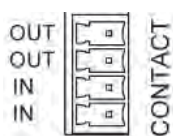
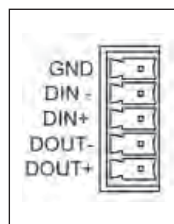


FIGURE 6 – DATA CONNECTIONS

See Page 3 for Switch Settings

Rear Panel



- 1) RS232**
 1 DIN (-)
 2 DOUT (-)
 3 Ground

- 2) RS422, Manchester & Bi-Phase**
 1 DIN (+)
 2 DIN (-)
 3 DOUT (+)
 4 DOUT (-)
 5 Ground

- 3) RS485 2-wire, Sensornet**
 1 DIN (+)
 2 DIN (-)
 3 Ground

- 4) RS485 4-wire**
 1 DIN (+)
 2 DIN (-)
 3 DOUT (+)
 4 DOUT (-)
 5 Ground

FIGURE 7 – LED INDICATORS

	FIBER	VIDEO IN	VIDEO OUT	DATA	AUDIO	CONTACT	POWER
GREEN	Communication link has been established over optical fiber	An active video signal is present on the BNC connector.	An active video signal is present on the BNC connector.	An active data signal is present on the input pins of the data connector.	(Solid or Blinking) An active audio signal is present	Closed	Unit powered up
RED	Communication link has not been established	No video input signal	No video output signal	–	–	–	–
OFF	Not powered up correctly	–	–	No data signal	No audio signal	Open	Unit powered down

MECHANICAL INSTALLATION INSTRUCTIONS

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 or LPS power supply rated 9-12 VDC @ 1A.

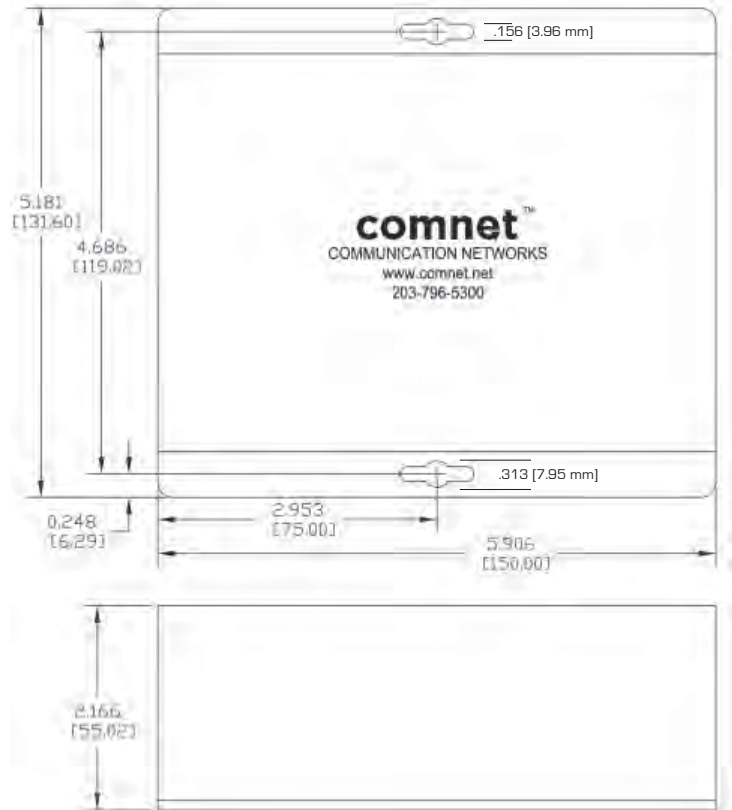
IMPORTANT SAFEGUARDS:

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™ two slot module



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