comnet
Communication Networks

FVTDR101B Transmitter
FVRDT10M1 Receiver
VIDEO WITH RETURN DATA

The ComNet™ FVTDR101B for the Bosch dome camera system supports the simultaneous transmission of video in one direction and pan tilt and zoom control signals in the reverse direction.

The FVTDR101B supports RS-232 and RS-422 data signals from the receiver to the transmitter and outputs RS-422 data into the Bosch dome. See **Figure 4** on **Page 3** for Data Connection Settings.

Bi-color (Red/Green) LED indicators on the receiver are provided for rapidly ascertaining equipment operating status. See **Figure 5** on **Page 3** for an explanation of each LED indicator.

The FVTDR101B is camera mounted and powered by the camera's internal power supply. The module is compatible with the ComNet FVRDT10M1 receiver, which is interchangeable between stand-alone or card mount configurations. See **Figure A** on **Page 4** for mounting instructions.

See **Figures 1 – 5** for complete installation details.
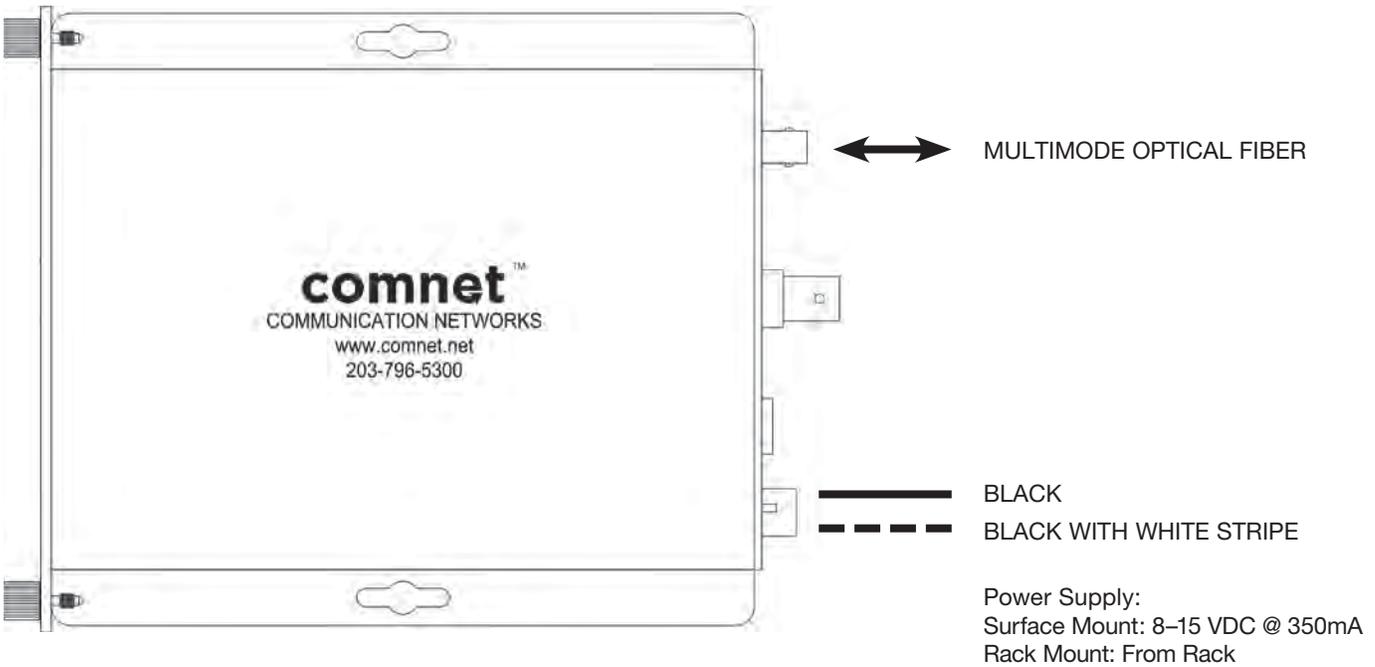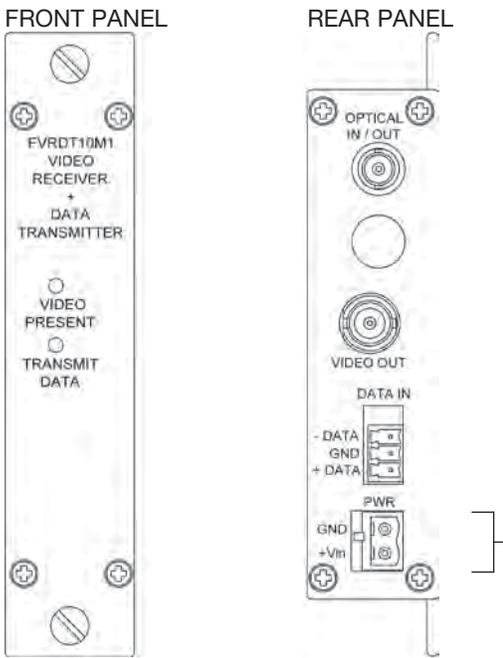
FIGURE 1 – FVRDT10M1 RECEIVER

MULTIMODE OPTICAL FIBER

comnet™
COMMUNICATION NETWORKS
www.comnet.net
203-796-5300

BLACK

BLACK WITH WHITE STRIPE

Power Supply:
Surface Mount: 8–15 VDC @ 350mA
Rack Mount: From Rack

FIGURE 2 – FVRDT10M1 RECEIVER

FRONT PANEL

REAR PANEL

FVRDT10M1
VIDEO
RECEIVER
+
DATA
TRANSMITTER

VIDEO
PRESENT

TRANSMIT
DATA

OPTICAL
IN / OUT

VIDEO OUT

DATA IN

- DATA
GND
+ DATA

PWR

GND

+Vin

NOTE: Remove Electrical
Connector for Rack Mount Units

FIGURE 3 –
FVTDR101B IN DOME TRANSMITTER

PCA1042 REV G

MULTIMODE
OPTICAL FIBER
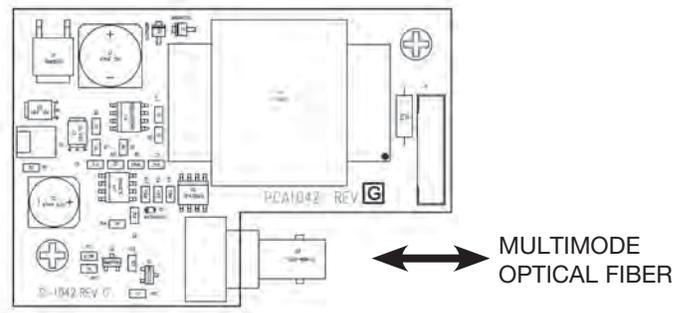
FIGURE 4 – DATA CONNECTIONS

Bi-phase Data

3   (-) DATA IN
2   GND   } Bi-phase
1   (+) DATA IN

Bi-phase

Customer Equipment
Data Out (+)
Data Out (-)

FVRDT10M1
(+) DATA
(-) DATA

FVTDR10M1
(+) DATA
(-) DATA

Customer Equipment
Data In (+)
Data In (-)
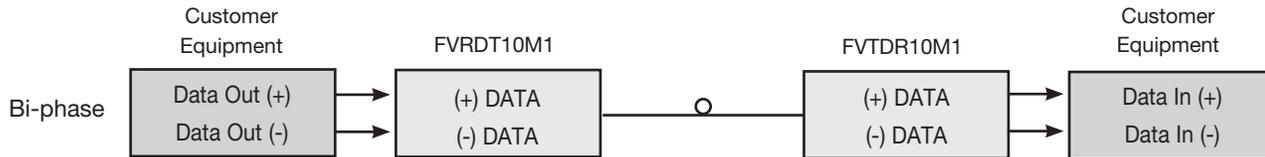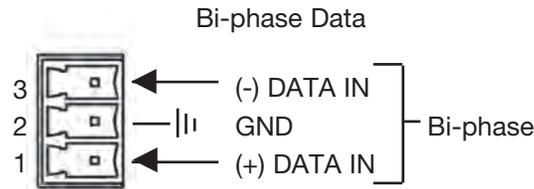
FIGURE 5 – LED INDICATORS
FVRDT10M1 Receiver

	VIDEO PRESENT	TRANSMIT DATA
GREEN	Activity	Activity
RED	No Activity	No Activity
OFF	Not powered up correctly	Not powered up correctly

NOTE: Red Does Not Mean "Error"

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.

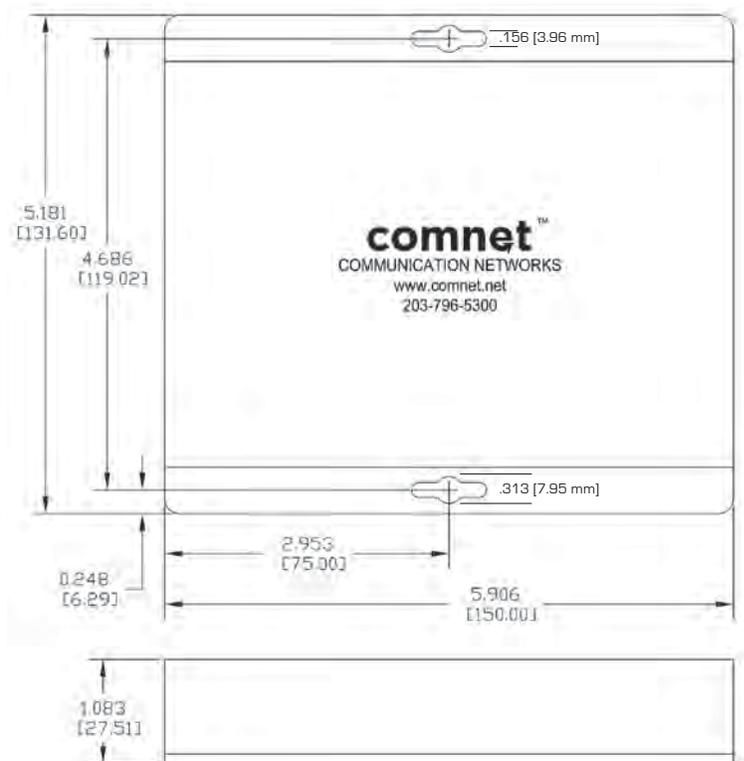**WARNING**: Unit is to be used with a Listed Class 2 or LPS power supply.

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 (Tma) 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