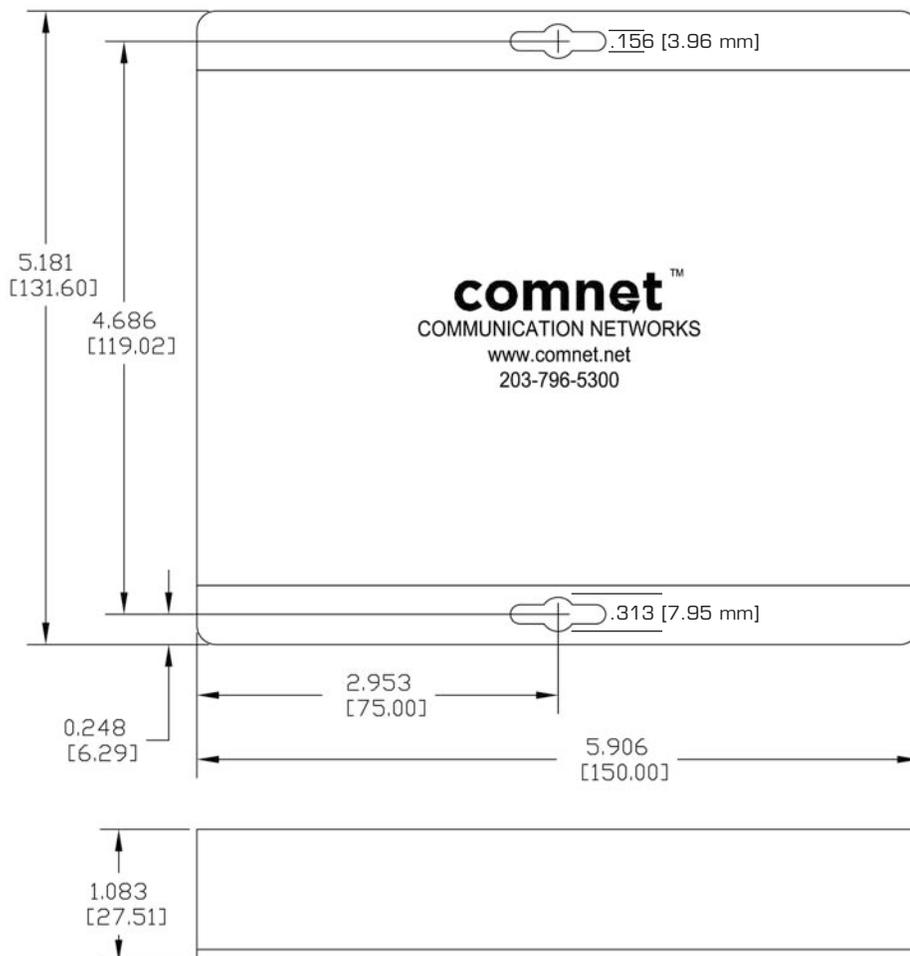


## Mechanical Installation Instructions

**Figure 1:** Dimensions are for a standard ComNet™ one slot module.



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### 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.

### Standalone Module:

The unit is provided with a mounting plate with holes for two No. 6 pan head screws (3-mm or 3.55-mm).

**The type of screws must be suitable for the surface where a module will be mounted. See figure 1.**

1. Determine where the module will be installed, and ensure that there is adequate space at both ends for making the various cable connections and for reading the diagnostic LEDs.
2. Attach the module to a flat surface using two mounting screws. (Not Supplied)

### Rack Module:

The unit is designed to be installed in the ComNet 19-inch (483-mm) EIA standard card-cage rack, the C1-US, C1-EU, or the C1-CH. Follow these guidelines to install rack cards after performing module setup procedures.

### C1-US, C1-EU, or the 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.

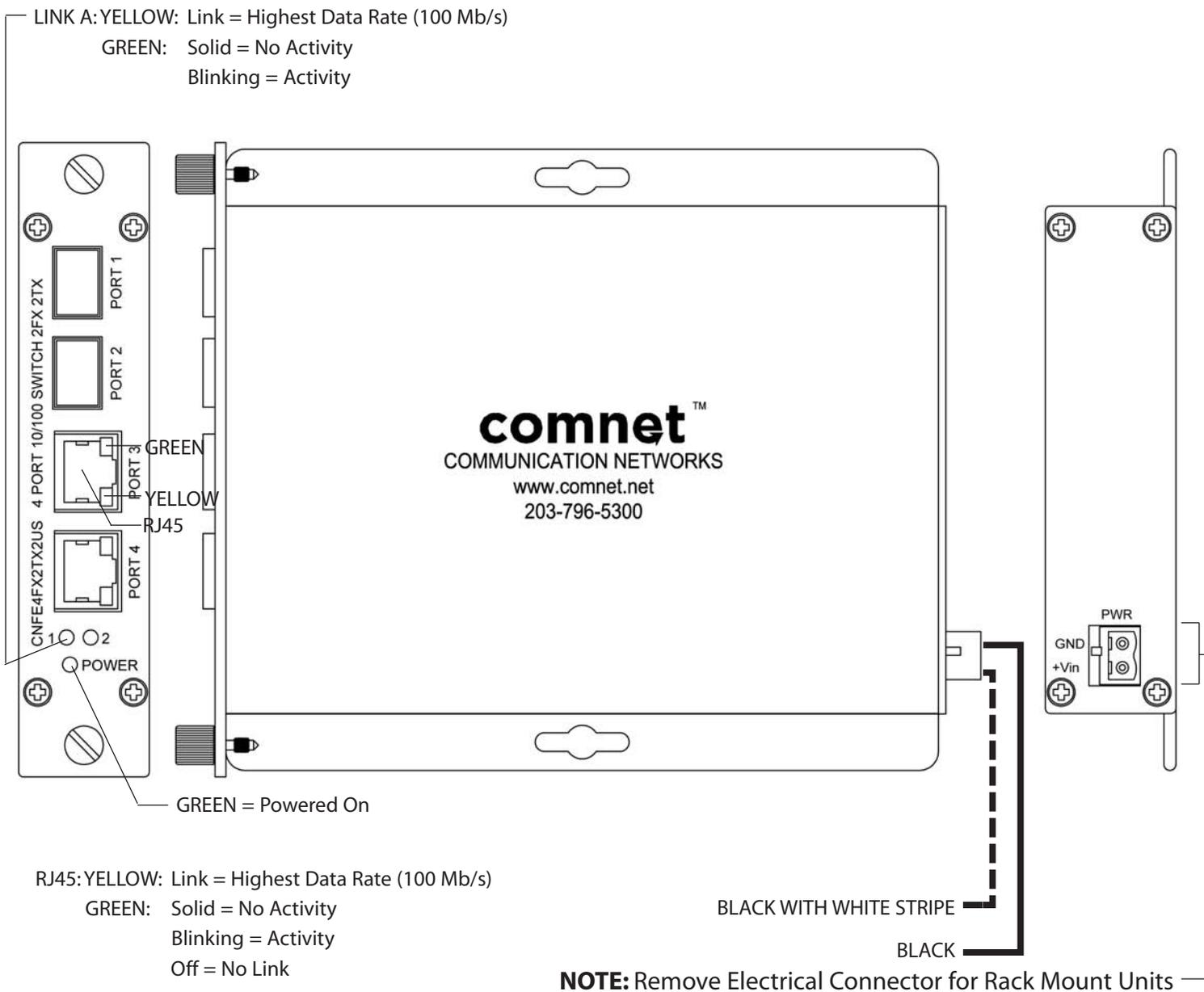
1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

### **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.

## INSTALLATION INSTRUCTIONS

## 10/100 Mbps ETHERNET 4 PORT UNMANAGED SWITCH



**WARNING:** Unit is to be used with a Listed Class 2 or LPS power supply rated 9-12 VDC @ 1A.

**WARNING:** This unit should be installed in a restricted access location; available through the use of a lock and key or other means of security. Access should be limited to service personnel who have been instructed about the reasons for the restrictions to the location. Any and all precautions should be taken and controlled by the authority responsible for the location.

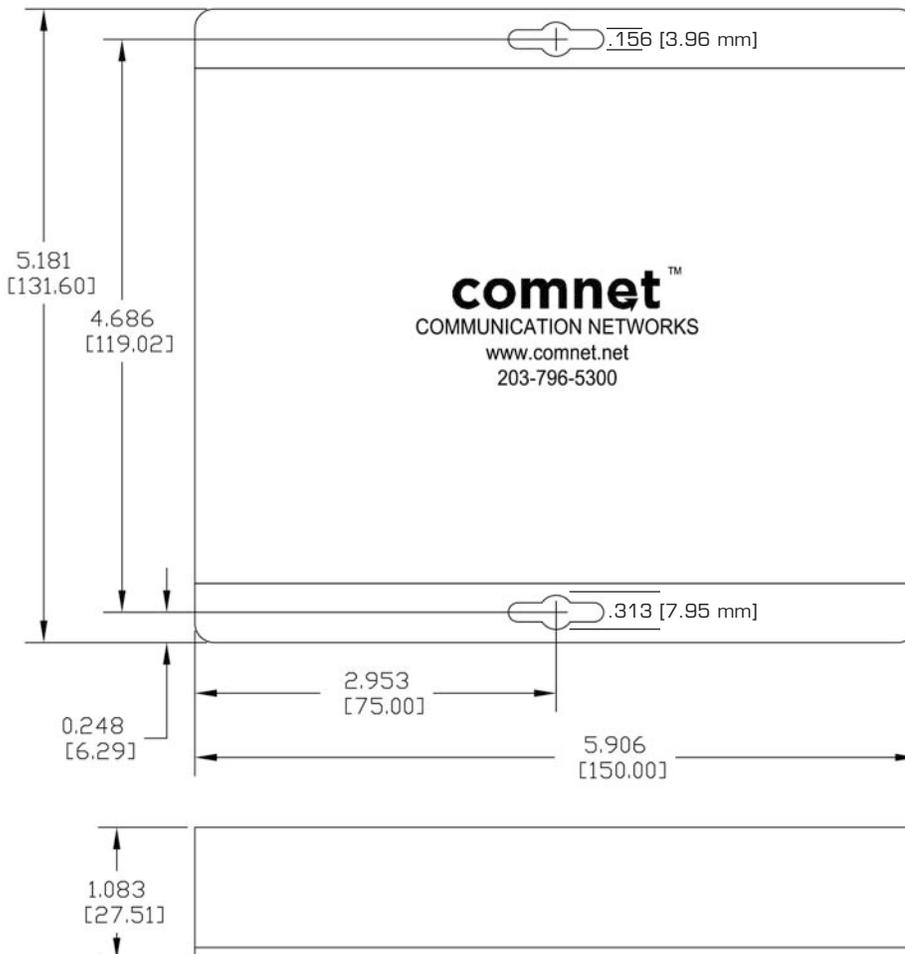
### IMPORTANT SAFEGUARDS:

**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<sub>ma</sub>) 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.

## Mechanical Installation Instructions

**Figure 1:** Dimensions are for a standard ComNet™ one slot module.



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### 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.

### Standalone Module:

The unit is provided with a mounting plate with holes for two No. 6 pan head screws (3-mm or 3.55-mm).

**The type of screws must be suitable for the surface where a module will be mounted. See figure 1.**

1. Determine where the module will be installed, and ensure that there is adequate space at both ends for making the various cable connections and for reading the diagnostic LEDs.
2. Attach the module to a flat surface using two mounting screws. (Not Supplied)

### Rack Module:

The unit is designed to be installed in the ComNet 19-inch (483-mm) EIA standard card-cage rack, the C1-US, C1-EU, or the C1-CH. Follow these guidelines to install rack cards after performing module setup procedures.

### C1-US, C1-EU, or the 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.

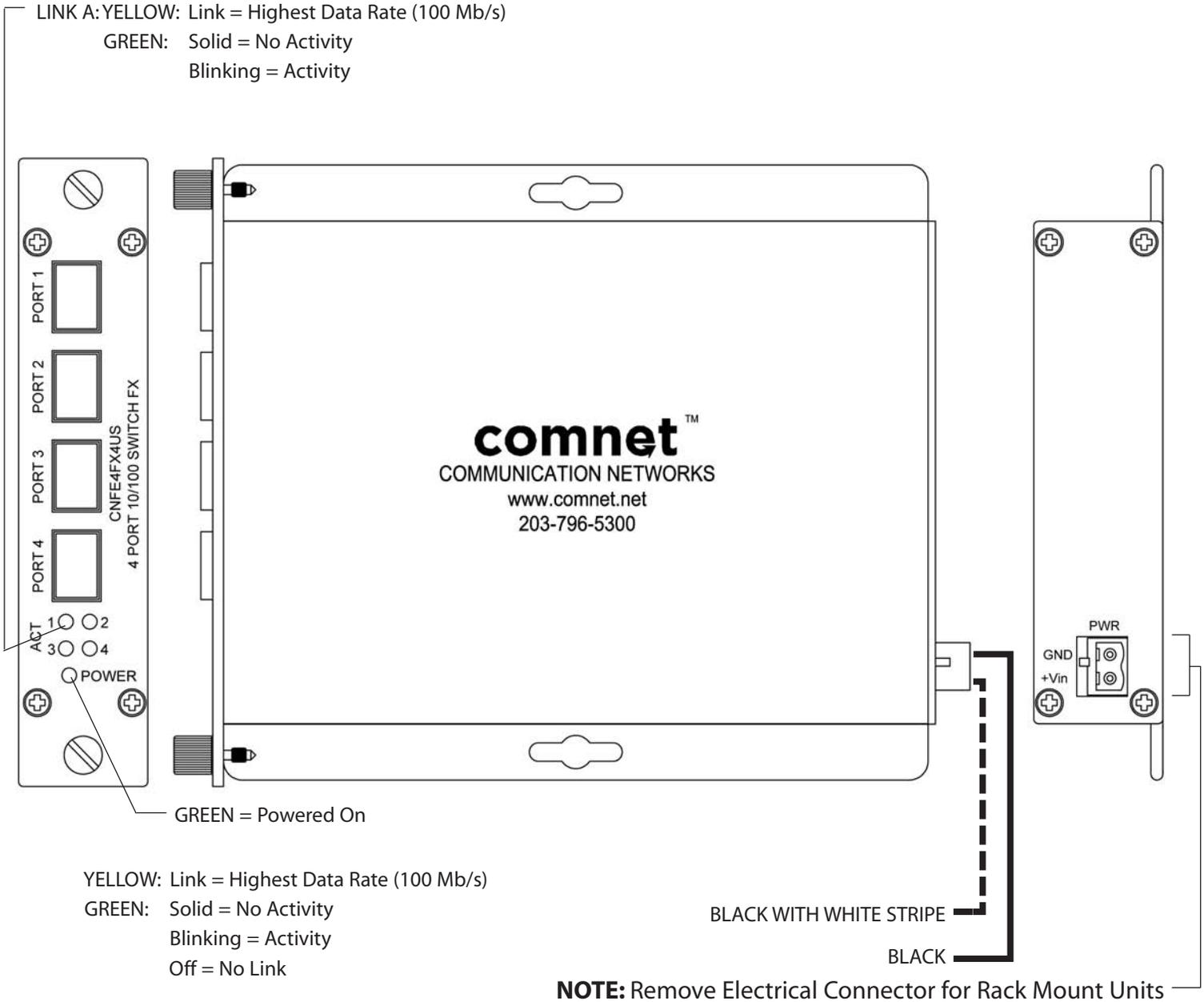
1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

### **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.

## INSTALLATION INSTRUCTIONS

## 100 Mbps ETHERNET 4 PORT TRANSCEIVER



**WARNING:** Unit is to be used with a Listed Class 2 or LPS power supply rated 9-12 VDC @ 1A.

**WARNING:** This unit should be installed in a restricted access location; available through the use of a lock and key or other means of security. Access should be limited to service personnel who have been instructed about the reasons for the restrictions to the location. Any and all precautions should be taken and controlled by the authority responsible for the location.

### 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<sub>ma</sub>) 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.

# SFP-(x) Installation/Removal

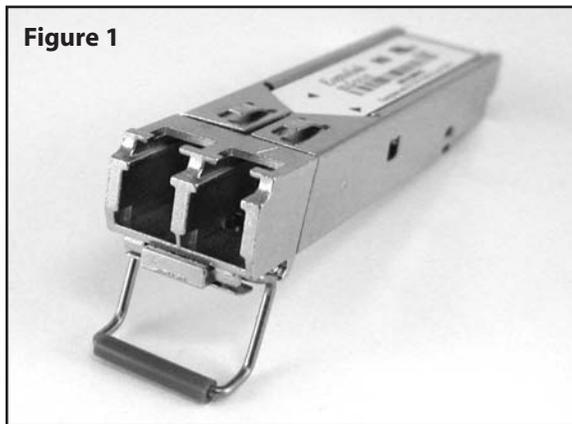
## CAUTION:

- The Fiber Optic sub-module is static sensitive. Use static handling precautions when installing or removing the sub-module.
- Protect your SFP sub-modules by inserting clean dust plugs into the SFP sub-modules after the optical fiber is extracted from them. Be sure to clean the optic surfaces of the optical fiber before you plug them back into the optical bores of another SFP sub-module. Avoid getting dust and other contaminants into the optical bores of your SFP sub-modules. The optics will not work correctly when obstructed by dust.

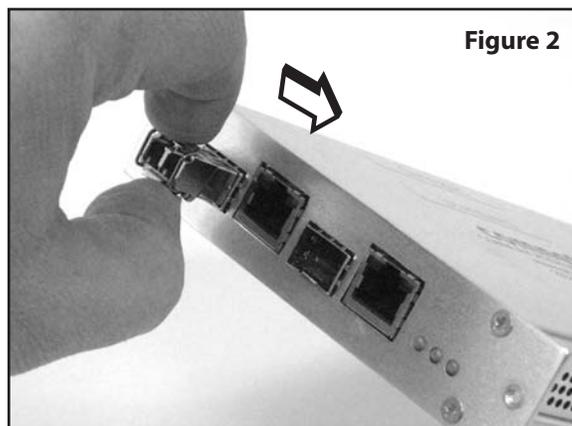
## SFP Module:

- The SFP sub-module installs in the connector cage located on the unit corresponding to the port assignment to be used.
- The SFP sub-module is keyed and can only be installed in one orientation.
- The SFP sub-module (see **Figure 1**) has a bale clasp that you use to secure the SFP sub-module in a connector cage.

The photos used in the following sequence are intended to aid in the installation and removal of the SFP sub-module and may not match your particular model.



## Installation:

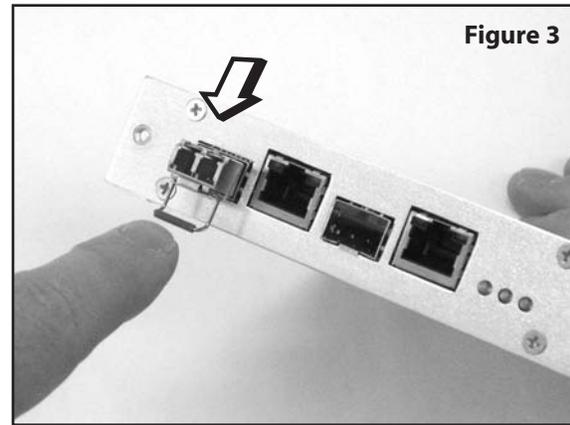


To insert an SFP sub-module into a connector cage, perform the following steps:

- Step 1** - Flip the bale clasp up before inserting the SFP module.
- Step 2** - Line up the SFP sub-module with the port and slide it into the port. (see **Figure 2**)
- Step 3** - When you are ready to attach the optical fiber, remove the rubber plugs from the sub-module and save for future use.

**Note:** When installed properly the SFP sub-module will lock in place.

## Removal:



To remove an SFP sub-module from a connector cage, perform the following steps:

- Step 1** - Disconnect the optical fiber from the SFP sub-module.
- Step 2** - Open the bale clasp on the SFP sub-module by pressing it down with your index finger as shown in **Figure 3**.
- Step 3** - Grasp the SFP sub-module between your thumb and index finger and carefully remove it from the connector cage as shown in **Figure 4**.
- Step 4** - Install the rubber plugs back into the SFP sub-module optical bores, and place the SFP sub-module in anti-static protective packaging.

