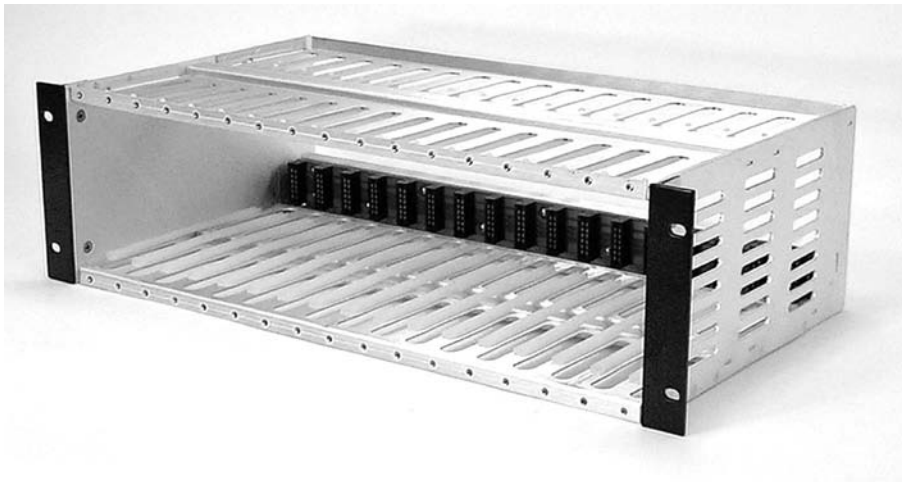


GE  
Security

Card Cage  
Model 517R1

# installation instructions



imagination at work

## GENERAL

This manual is a guide to the installation and operation of the 517R1 card cage system. Please read the entire manual before installing the equipment.

The 517R1 card cage system is designed to hold any combination of 1- 2- and 3-inch Fiber Options rack mount cards, up to the equivalent of seventeen (17) one-inch cards in total.

The 517R1 system requires an external power supply, the 517EPS1, to provide power to the cards. The 517EPS1 power supply provides power to two 517R1 card cages, or a maximum of 34 single-slot Fiber Options cards.

**NOTE:** For further installation information on the 517EPS1 power supply please refer to the installation manual for that unit.

The 517R1 card cage and the 517EPS1 power supply both mount in standard EIA 19-inch (48.3 cm) racks.

### Capacity

The 517EPS1 provides a two power outputs each rated at a Power Factor of 72, or 9.0 amps. Determine the power requirements of the rack cards in each rack by adding the rack card Power Factors. The total for the rack must be less than or equal to 72.

For example, there are 17 rack cards to be installed in two 517R1 card cages, with each card having a Power Factor of 3. The total Power Factor for each rack is 45 (15 x 3). The Power Factor of the 517EPS1 power supply is 72 for each channel, indicating the unit can safely supply power for both racks.

**Caution:** When installing modules in the 517R1 card cage, ensure the sum of the module Power Factors does not exceed the Power Factor of the power supply.

To determine the Power Factor of the GE Security modules, check the Product Specifications located on the Web at [www.gesecurity.com](http://www.gesecurity.com).

### Unpacking the Unit

In the event that anything is missing from the following list, contact your authorized Fiber Options dealer or representative.

517R1 Card Cage  
Instruction manual

Save the original packing materials in case it becomes necessary to return the unit.

## INSTALLATION

### Rack Mounting

The 517R1 card cage mounts in a standard EIA 19-inch (483 mm) rack. Mounting holes are provided on each side of the card cage to secure it to the rack.

### Optional Wall Mounting

Fiber Options' 51WM Wall Mounting brackets are used to mount the 517R1 Card cage vertically or horizontally on a suitable mounting surface. To mount the card cage:

1. Determine where the card cage will be installed and ensure there is adequate room at both ends for making the various cable connections and to install or remove the modules from the unit.
2. Insert two 8x32 countersunk screws through inside of card cage and attach a 51WM Wall mounting brackets to both sides of the card cage. See Figures 1 and 2.

**CAUTION:** Ensure the mounting surface and hardware can support the card cage when all rack-mounted modules are installed

3. Mount the card cage to a suitable surface using the slotted openings in the 51WM wall mounting brackets. The type of hardware used must be suitable for the surface where the card cage will be mounted.

### **OPERATION**

Turn on the 517EPS1 power supply using the POWER switch located on the power entry module at the rear of the unit.

In the event of failure, ensure input power is properly connected. The front panel OUTPUT indicators on the rack-mounted power supply must be glowing green, indicating power is on and output voltage is functioning properly.

Also make sure that all modules are properly installed and seated in the card cage.

### **MAINTENANCE**

The 517R1 card cage does not require any field adjustments, periodic maintenance, or calibration.

### **CONTACTING GE SECURITY**

Have the following information available: exact model number and product code of your fiber-optic links, and a listing of the diagnostic indicators and their respective color/condition.

### **SHIPPING AND PACKAGING**

Before shipping or transporting your GE Security unit, pack it securely to prevent damage that could occur in transit. Use care to protect all connectors, LEDs, and corners from possible damage.

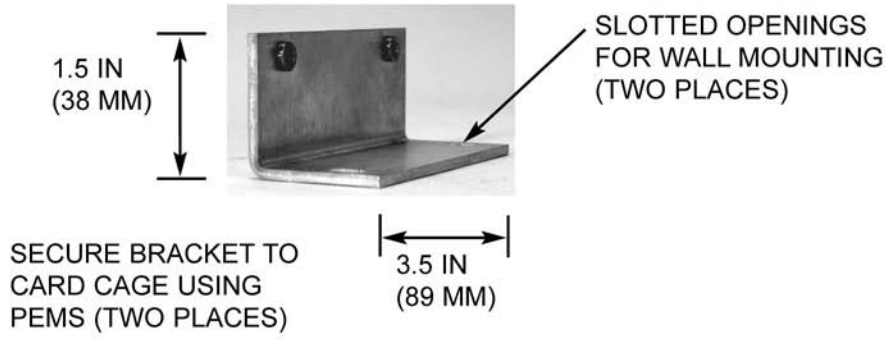
### **RETURNS TO GE SECURITY**

If any equipment must be returned to GE Security for repair or replacement, you must obtain authorization from our Return Authorization department before shipping.

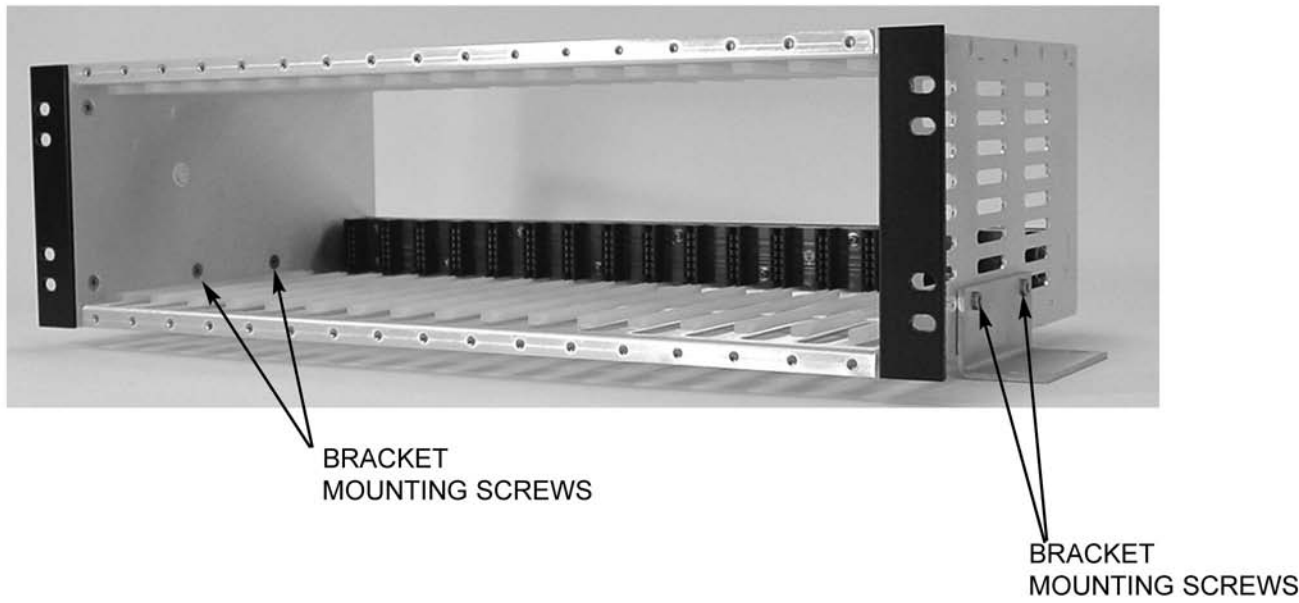
**NOTE:** All authorized returns must be clearly marked with the Return Authorization information. Please follow the instructions completely.

**NOTE:** GE Security will not accept return delivery of any product without prior authorization.

**FIGURE 1: 51WM WALL MOUNTING BRACKET**



**FIGURE 2: 517R1 CARD CAGE WITH 51WM WALL MOUNTING BRACKET**



## Customer Support

For assistance in installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, please contact technical support during normal business hours (Monday through Friday, excluding holidays, between 6 a.m. and 5 p.m. Pacific Time).

### GE Security

Call: 888 437-3287 (US, including Alaska and Hawaii; Puerto Rico; Canada)

Outside the toll-free area: 503 885-5700

Fax: 561 998-6224

[www.gesecurity.com](http://www.gesecurity.com)



GE Security

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