

# Rack Mount Installation Guide

## 1U Height Systems

**1**

### Introduction

This manual describes the procedure to retrofit protocol analysis 1U-sized systems for rack mounting at your site. The rack mount kit is for securing these systems in an EIA 310-D 19-inch equipment rack. The rack mount kit is included with some systems, or may be purchased as an accessory for existing systems.

Two brackets, which are attached (as shown in this document) to the side of the chassis, connect the chassis to the mounting posts of the rack.

Some racks provide a power strip along the length of one of the rear posts. If your rack has this feature, the systems and the rack mounting brackets are designed so that power can be supplied to the rear of the unit while network cables and user control is available at the front (exposed) portion of the system.

Rack Mount Kits covered by this document include kits for the Sierra™ M124, SierraNet™ M408 and SierraFC™ M164.


**2**

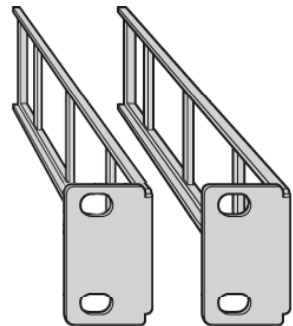
### Rack Mount Kit Components

The kit includes the following components:

Quantity	Part Description
2	Rack Mount Brackets
1	9/64" Allen Key
4	10-32 x 0.5 Screws (for securing the system chassis to the rack)

You will also need the following additional tools:

- Tape Measure
- Level
- Phillips Screwdriver



2 Rack Mount Brackets



1 x Allen Key

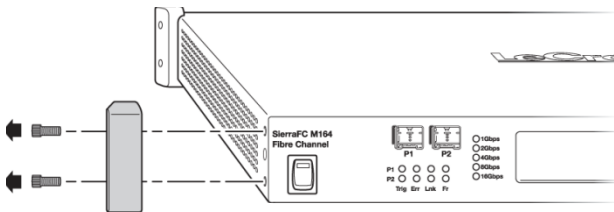


4 x Screws

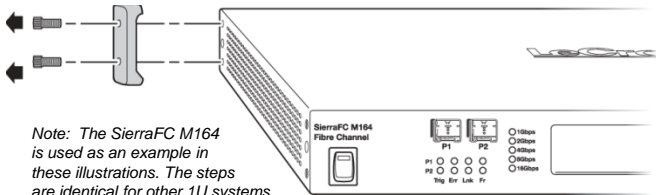
## Installing the Rack Mount Brackets

Take the following steps to attach the two brackets to the system chassis:

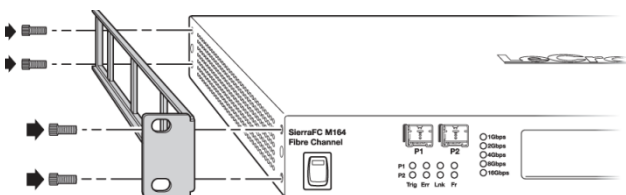
- Step 1:** Place the system chassis on a sturdy surface.
- Step 2:** Using the 9/64" Allen Key provided, unscrew the two screws that attach one of the front rubber bumpers to the system enclosure (see illustration below). Keep these screws as they will be used to attach the new rack mount brackets (see Steps 6-7).



- Step 3:** Repeat this procedure to remove the other front rubber bumper.
- Step 4:** Remove the two screws that attach one of the rear rubber bumpers to the system enclosure (see illustration below):

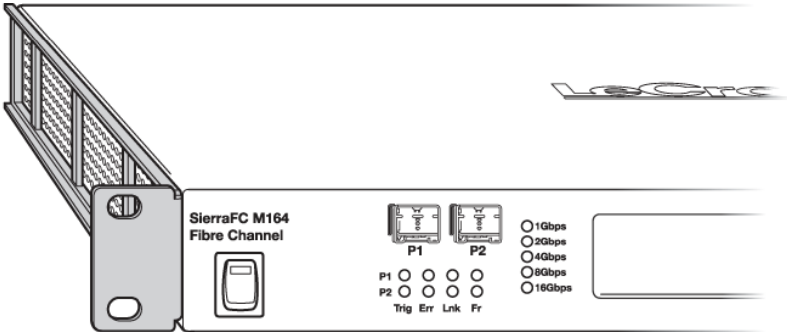


- Step 5:** Repeat this procedure to remove the other rear rubber bumper.
- Step 6:** Attach one of the brackets (shown below) to the left side of the system chassis using the 9/64" Allen Key provided and four of the screws that previously attached the rubber bumpers (these are the screws that were removed in Steps 2-5). See illustration below.



**Step 7:** Attach the other bracket to the right side of the system chassis (using the remaining four screws that were removed).

**Note:** Store the four rubber feet removed from the system in case you would like to return the system to the original configuration at a later time.



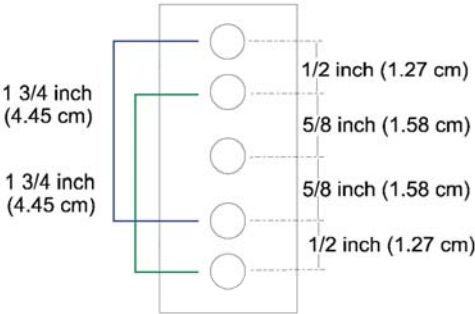
4

## Planning the Installation

Installing the system chassis in a rack mount enclosure requires some planning for issues such as location, spacing, airflow and power supply. These issues are reviewed below.

### Location

Most rack mounts conform to the EIA 310-D (RETMA) standard, which provides mounting holes on two vertical support rails which are separated by 19" (480 mm). This standard provides separation of the spacing holes in increments of both 1/2" (12.7 mm) and 5/8" (15.8 mm), which allows for various multiples of these spacing distances (such as 1.75" [44.5 mm] which is obtained by the separation of two 5/8" gaps and one 1/2" gap). See the diagram on the right. The rack mount brackets supplied use 1.75" spacing.



---

## Planning the Installation (continued...)



**WARNING:** In order to provide stability to the rack, systems should first be installed from the bottom, with the heaviest components located in the bottom of the rack. If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.

A location for the system chassis should be planned taking these restrictions into consideration.

### Spacing and Airflow

Allow, at a minimum, 1" of air space around each side of the system, and 3-4" of space in the rear of the system. This allows adequate airflow to cool the system. The air temperature within the rack enclosure should not exceed 122°F (50°C).

### Power Supply

The system requires a source of AC power (100-240V, 50-60 Hz, 230W) routed to the rear of the system. All other controls and wiring connections are located on the front panel of the system.

---

## Installing the System Chassis into the Rack

Follow these steps to install the system chassis in an open rack that enables you to slide the chassis in from the front.

- Step 1:** Position the chassis in the rack as follows:
- Step 2:** Use your tape measure and level to ensure that the supporting shelf and the chassis are installed straight and level.
- Step 3:** Make sure that your path to the rack is unobstructed.
- Step 4:** Slide the unit into the rack and position using the attached L brackets so that the slots in the brackets are positioned over the appropriate mounting holes in the side rails of the rack.
- Step 5:** Securely fasten the unit into the rack by using the four 10-32 x 0.5 screws which are supplied with the rack mount kit, installing two of the screws on each side of the unit. Use a Phillips screwdriver to tighten the screws.

This concludes the rack mount installation.