

SierraNet™ M1288 Rack Rail Kit Installation Guide



1 Introduction

This manual describes the procedures to install the SierraNet M1288 and/or a probe into a rack mount at your site.

The rack rail kit is designed for installation in an EIA 310-D 19-inch equipment rack.

For setups that include both the M1288 device and a probe, two brackets attached to the SierraNet chassis allow the device to slide into the rack rails. Two small ear brackets attached to the probe hold the probe in place atop the M1288.

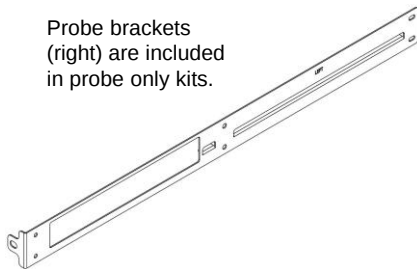
In probe-only configurations, two larger brackets attached to the probe allow it to slide into the rack rails.

Note that some racks have a power strip along the length of one of the rear posts, so you might need to consider the position of the strip when planning fastener points for the probe and analyzer.

2 Probe Only Rack Rail Kit Components

The probe only rack kit includes rack rails and probe brackets.

Probe brackets (right) are included in probe only kits.



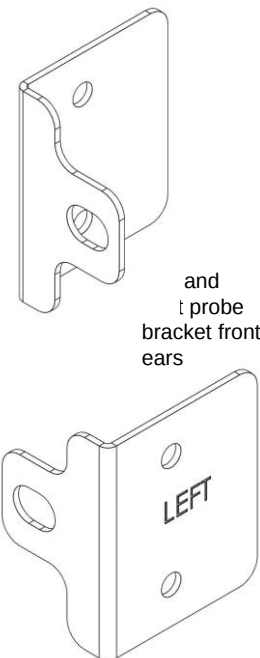
Probe Only Kit (PN AC036XXA-X)	
Quantity	Part Description
2	Rack Rails(L and R)
2	Probe Brackets (L and R)
1	9/64" Allen Key



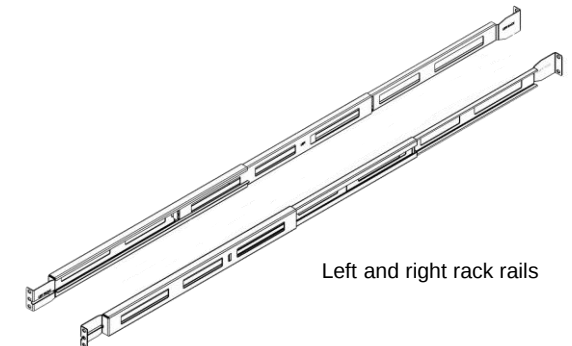
Rack rails (above) are included in both probe only and probe and analyzer kits.

3 Probe and Analyzer Rack Rail Kit Components

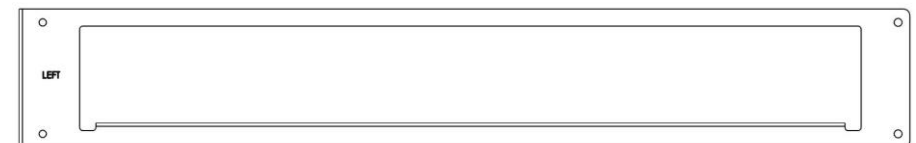
The probe and analyzer kit includes rack rails, analyzer brackets, and probe bracket front ears.



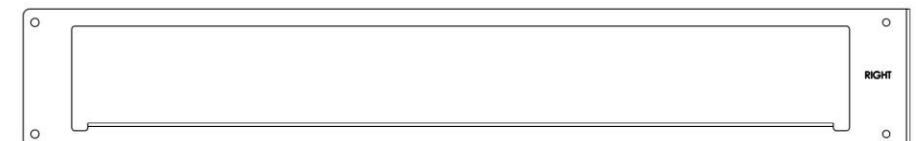
Probe and Analyzer Kit (PN AC035XXA-X)	
Quantity	Part Description
2	Rack Rails (L and R)
2	Analyzer Brackets (L and R)
2	Probe Bracket Front Ears (L and R)
1	9/64" Allen Key



Left and right rack rails



Left and right analyzer brackets. The flange of the bracket rests on the rack rail when the system is installed in the rack.



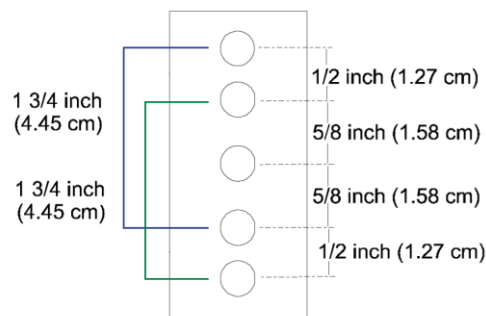
RIGHT

4 Planning the Installation

Installing the SierraNet System and probe in a rack mount enclosure requires attention to details such as location, spacing and airflow, and rear panel access. 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 above. The SierraNet brackets use 1.75" spacing.



WARNING: To make the rack more stable, install components in the rack from the bottom up, with the heaviest components in the lowest positions. If your rack included stabilizing devices, install those before mounting or servicing the unit in the rack.

Spacing and Airflow

To ensure adequate airflow to cool the system, be sure to leave at least 2-3" of space around each side of the rack, and 3-4" of space at the rear. The air temperature within the rack enclosure should not exceed 92°F (50°C).

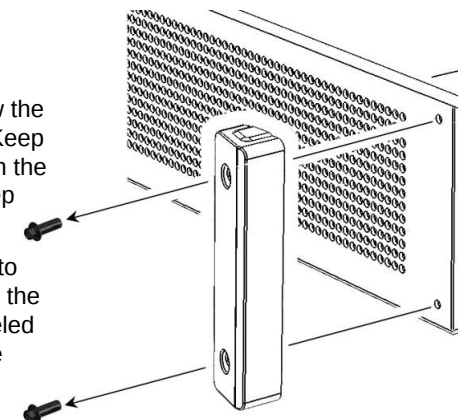
Power Supply and Rear Panel

The SierraNet M1288 operates on AC power (100-240V, 50-60Hz, 1000W) connected to the rear of the system. There are also SYNC OUT / SYNC IN connectors (to daisy-chain multiple analysis systems) and an expansion connector (to connect (2) M1288 units for full stack recording of 800GbE) on the rear panel of the device.

5 Installing the Probe Brackets – Probe Only

In probe only setups, attach the probe brackets using the following steps:

- Step 1:** Place the probe on a sturdy surface.
- Step 2:** Using the Allen key, unscrew the rubber feet from the probe. Keep these screws to use to attach the probe front ear brackets (Step 3).
- Step 3:** Use the screws from Step 2 to secure the probe brackets to the probe. The brackets are labeled Left and Right and should be attached to the probe accordingly.

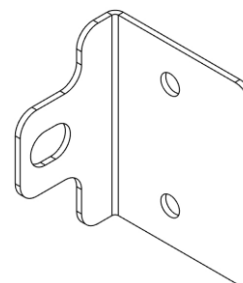


Installing the Probe Brackets – Analyzer and Probe

In setups with a probe and an analyzer, attach the front ear brackets to the probe using the following steps:

- Step 1:** Place the probe on a sturdy surface.
- Step 2:** Using the Allen key, unscrew the rubber feet from the probe enclosure. Keep these screws, as they will be used to attach the front ear brackets (Step 3).

Store the rubber feet in case you need to return the probe to its original configuration.
- Step 3:** Use the Allen key and the screws from Step 2 to attach the front ear brackets to the probe chassis. The brackets are labeled Left and Right and should be attached to the probe accordingly.



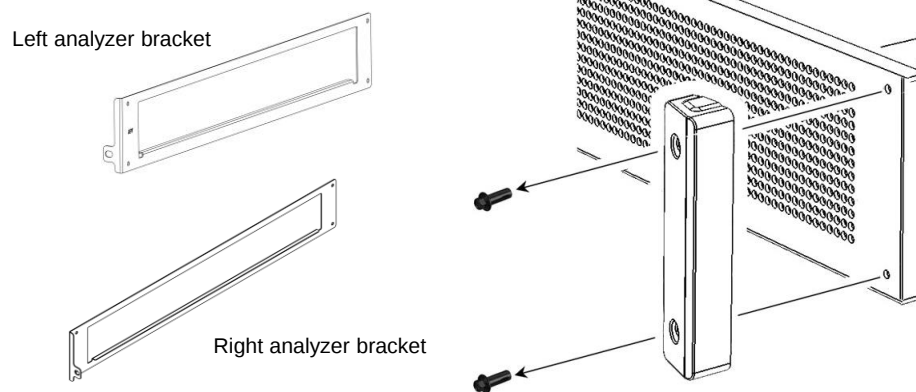
Installations that include both a probe and analyzer use the front ear brackets on the probe.

6 Installing the Analyzer Brackets

To attach the analyzer brackets to the SierraNet chassis:

- Step 1:** Place the SierraNet M1288 chassis on a sturdy surface.
- Step 2:** Using the Allen key, unscrew the rubber feet from the SierraNet enclosure. Keep these screws, as they will be used to attach the analyzer mounting brackets (Step 3).

Store the rubber feet in case you need to return the system to its original configuration.



- Step 3:** Use the Allen key and the screws from Step 2 to attach the brackets to the SierraNet chassis. The brackets are labeled Left and Right and should be attached to the M1288 accordingly.

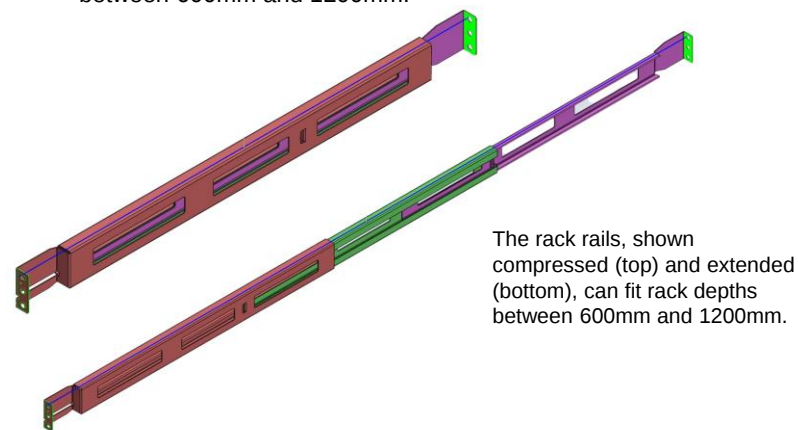


A probe and analyzer with rack rail mounting brackets installed. The screw holes at the front of the brackets will line up with holes in the rack.

7 Installing the Rails onto the Rack

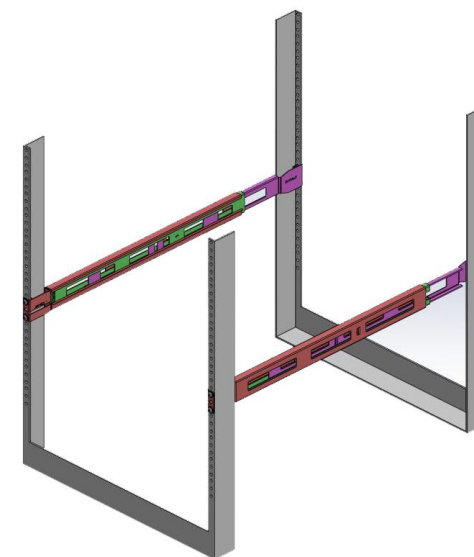
Follow these steps to install the rack rails from this mounting kit.

- Step 1:** Orient each rail on the appropriate side of the rack. The rack rails are labeled Left and Right to ensure proper alignment for installation.
- Step 2:** Extend each rail to the depth of the rack. The rails can fit rack depths between 600mm and 1200mm.



- Step 3:** Secure the rail to the rack. Each rail requires four screws and washers (two in the front and two in the back). These are not included in the installation kit.

A rack system with one set of rails installed. In this configuration, the rack can accommodate a probe, an M1288 analyzer, or an M1288 analyzer and a probe. If the setup includes both a probe and analyzer, there is not a separate set of rails for the probe.

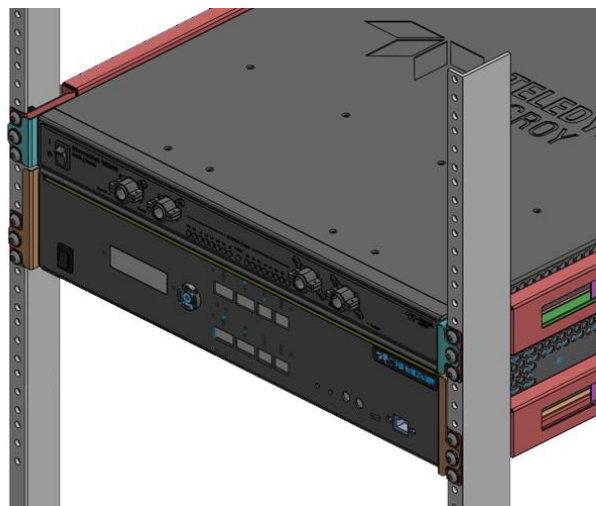


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Installing M1288 and Probe

Follow these steps to install the SierraNet M1288 and probe in an open rack.

- Step 1:** Slide the SierraNet unit into the rack rails. Make sure the support flange on each Analyzer bracket is supported by the rails.
- Step 2:** Center the unit in the rack to allow for maximum airflow around the unit.
- Step 3:** Securely fasten the unit into the rack.
- Step 4:** Slide the probe into the rack directly on top of the Analyzer. Push the probe in until the front ear brackets contact the front of the rack.



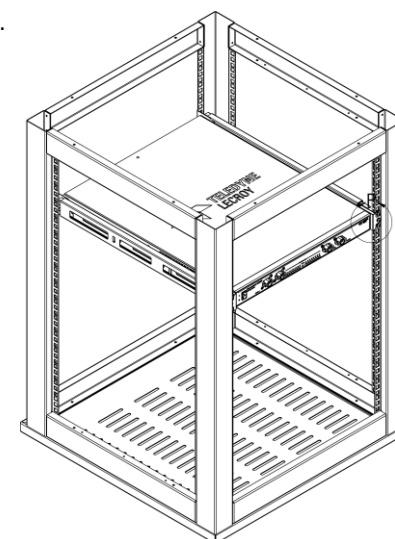
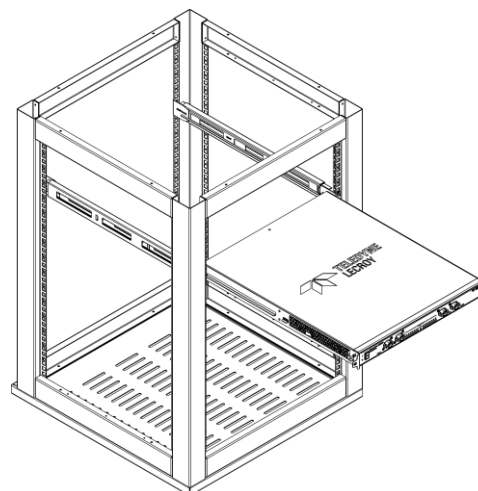
Note: The support shelf on the rails must fit between the support flange on the bracket and the mounting screw for the bracket.

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Installing the Probe Only

Follow these steps to install the probe in an open rack:

- Step 1:** Slide the probe into the rack rails. Make sure the support flange on each probe bracket is supported by the rails.
- Step 2:** Center the unit in the rack to allow for maximum airflow around the unit.
- Step 3:** Securely fasten the unit into the rack.



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Periodically check the Teledyne LeCroy Protocol Solutions website for software updates and other support related to this product.

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E-mail: psgsupport@teledyne.com

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