

Keysight N2902B Rack Mount Kit for S-Series and 9000 Series Oscilloscopes

Installation
Guide

Notices

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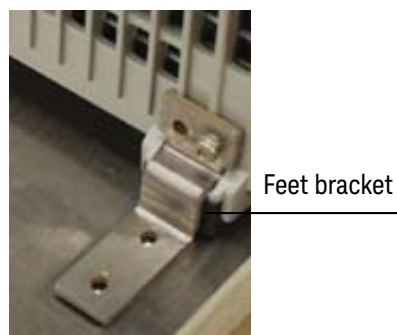
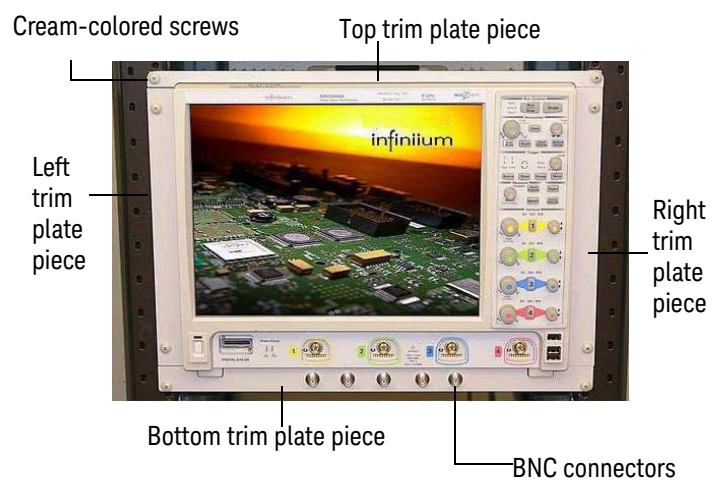
In This Guide

This guide contains instructions for installing the Keysight N2902B Rack Mount Kit. The rack mount kit provides a support shelf and hardware for mounting Infiniium S-Series and 9000 Series oscilloscopes into Electronic Industries Association (EIA) standard 19-inch (487-mm) rack cabinets.

Included Parts

The rack mount kit includes the following parts:

- Support tray
- Trim plate (consists of a bottom piece, top piece, and two side pieces)
- BNC connectors to be inserted into the bottom trim plate
- Black rubber stoppers to plug holes in bottom trim plate if the hole is not being used for a BNC connection
- Two track rails
- Two feet brackets
- Sheet metal nuts
- Four sets of screws: cream-colored pan head screws for attaching the trim plate pieces, metallic pan head screws for attaching the side rails to the rack, metallic M4 screws for attaching the feet brackets to the support tray, and another set of M4 screws for attaching the feet brackets to the oscilloscope.



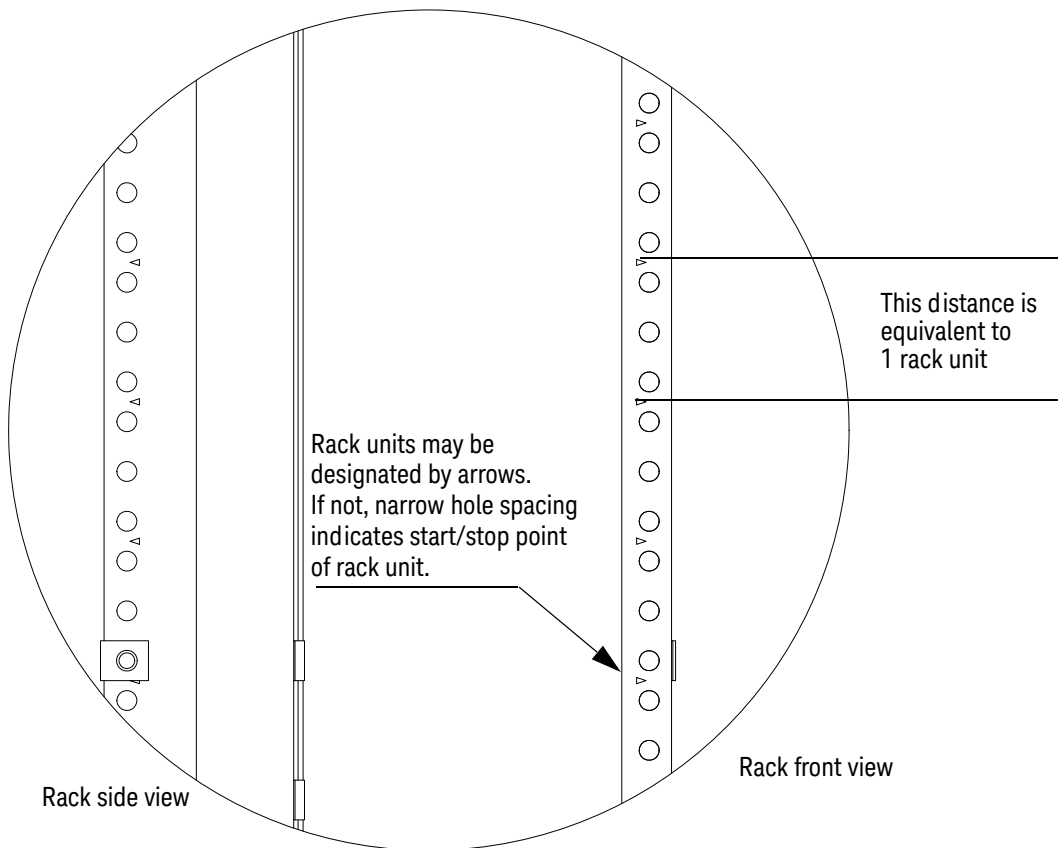
Installation

The following tools are required for installing the rackmount kit:

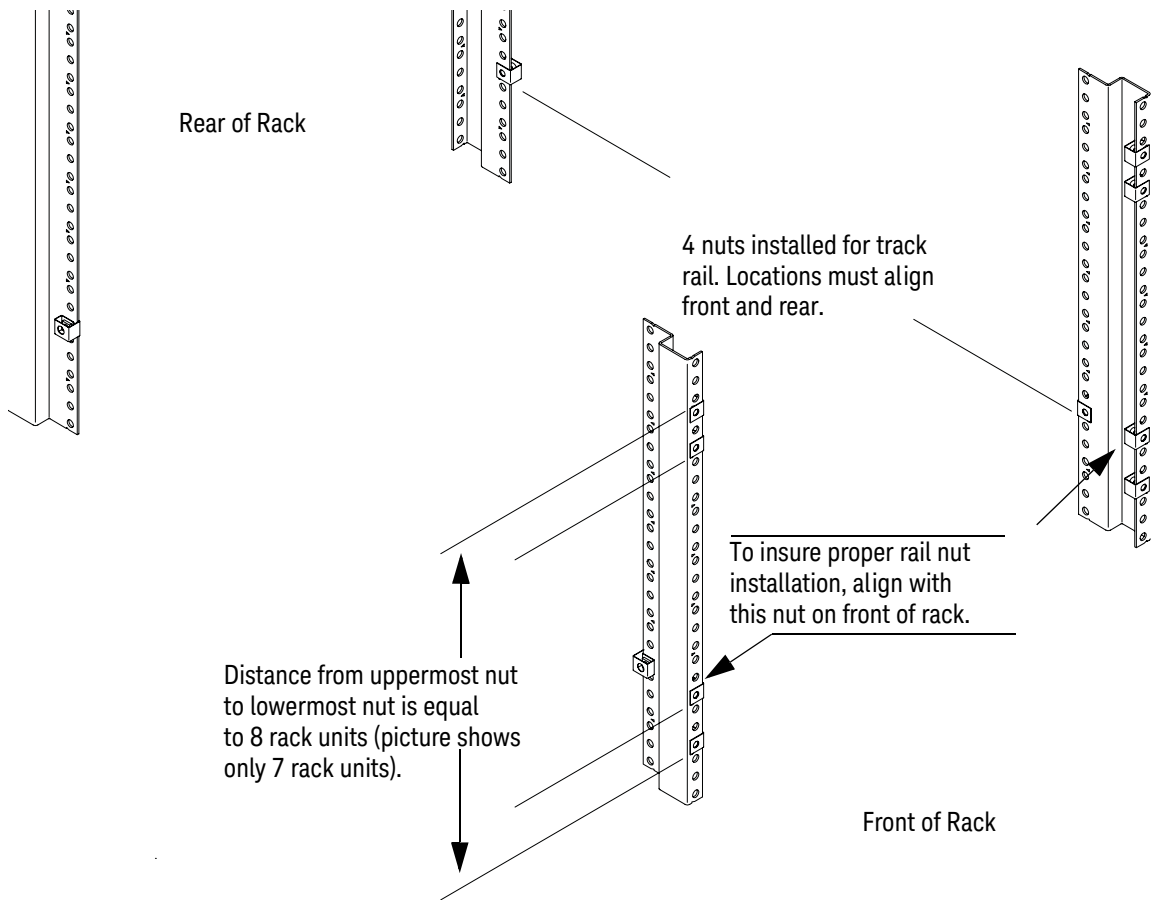
- T20 Torx driver
- #2 Phillips screwdriver

Preparing the Rack

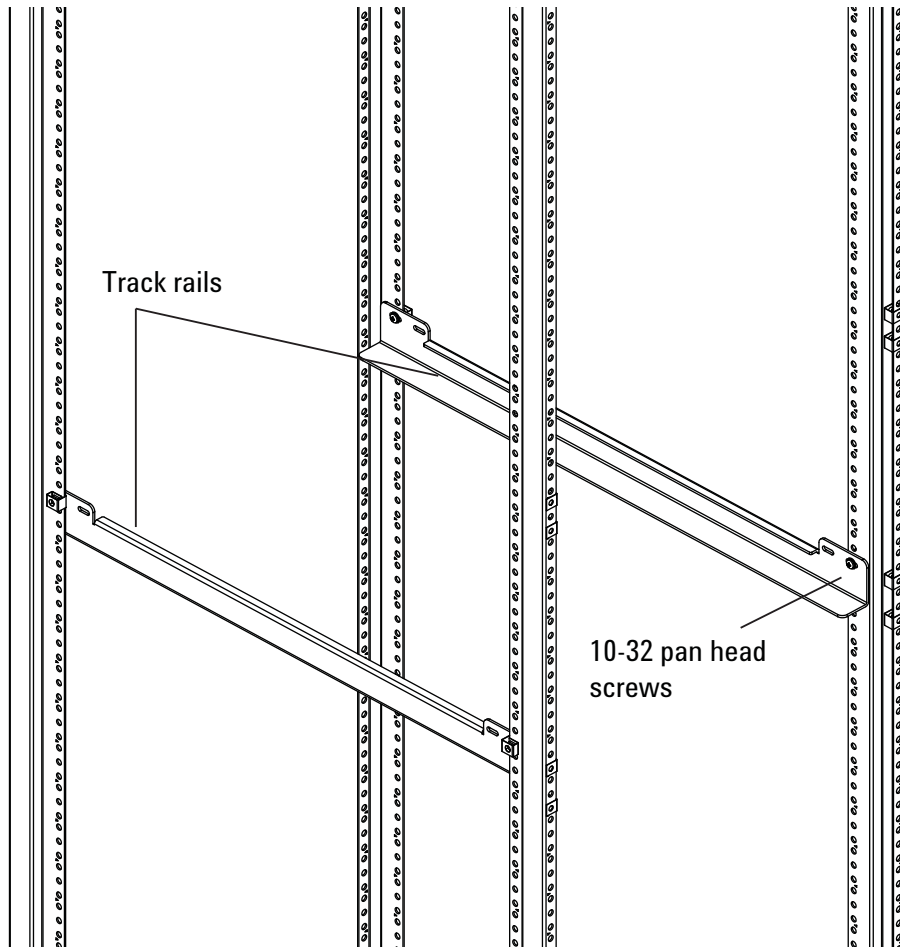
- 1 To prepare the rack for sheet metal nut installation, eight rack mount units must be designated for use. The following diagram shows how to determine a rack unit.



The following figure indicates proper locations for sheet metal nut locations. To ensure a level installation, the same eight rack unit locations are used on each vertical rack piece. NOTE: The picture shows only seven rack units.



- 2 Attach the track rails to the rack using the four 10-32 pan head screws provided and a #2 Phillips screwdriver.



Installing the Oscilloscope into the Rack

- 1 Remove the two M4 screws from the rear panel of the oscilloscope.

Remove screws



- 2 Attach the feet brackets to the oscilloscope using the two supplied M4 16mm screws.



- 3 Place the support tray onto a table, then place the oscilloscope onto the support tray. Line up the feet bracket screw holes with the holes in the support tray.



Line up screw holes

- 4 Attach cables to the side panel BNC connectors on the oscilloscope and route them under the oscilloscope through the indentation in the support tray. (Later, these cables will be connected to the bottom trim plate BNC connectors so you can have access to these BNCs once the oscilloscope is installed in the rack.) Let the end of the cables that pass under the oscilloscope just dangle for now. In a later step you will attach them to the bottom trim plate BNCs.
- 5 Plug the power cord into the oscilloscope and route it through the back so you can plug it into a power outlet after installation.

- 6** Use two M4 screws to secure each foot bracket to the support tray.



- 7** The oscilloscope and support tray should now look like the following picture except you may have cables connected to the side panel BNCs if you chose to attach them.

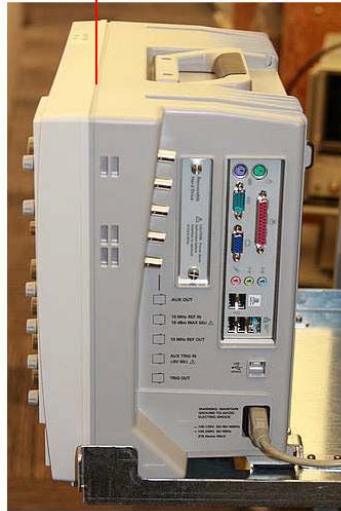


- 8 Move the oscilloscope and support tray over to the rack. Using the rails, slide the tray into the rack.
- 9 Connect the other end of each of the cables you routed under the oscilloscope to one of the BNC connectors in the bottom trim plate piece as shown below. If you do not want to install all five BNC connectors into the openings in the bottom face plate, you can fill the holes with the supplied rubber stoppers.



- 10 Attach the bottom trim plate piece to the rack using two cream-colored pan head screws. Then attach the side trim plate pieces using two cream-colored pan head screws on each side. NOTE: When attaching the side face plate pieces, be sure the screw holes are located toward the outside.
- 11 Attach the top trim plate piece to the rack with two cream-colored pan head screws, being sure that it slides into the notch on the top of the oscilloscope.

The top trim plate fits into this notch.



The oscilloscope is now fully installed and should look similar to the following picture.

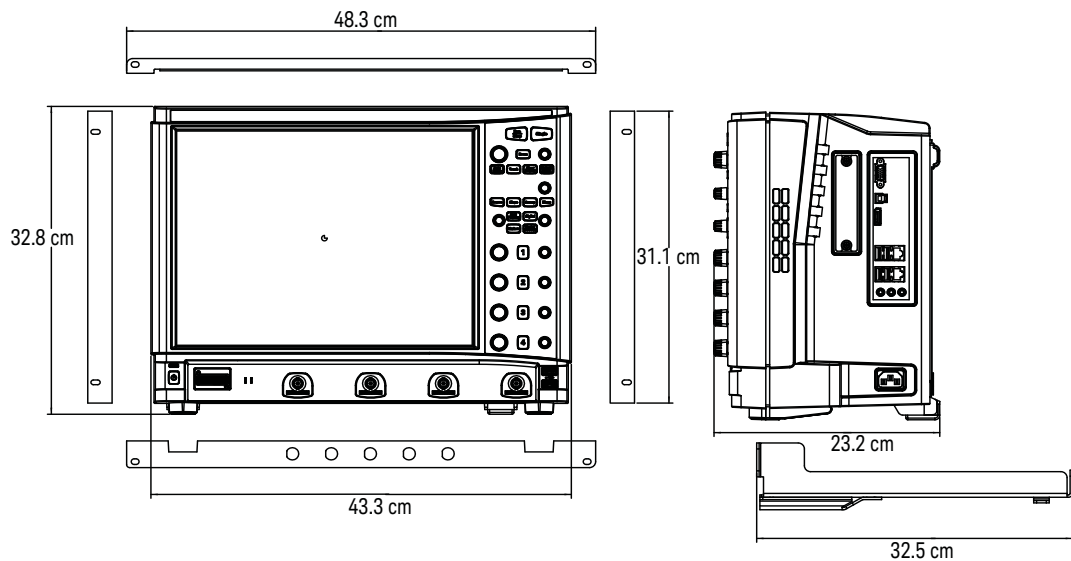


Dimensions

The following table shows the approximate dimensions for the rack mount trim plate pieces.

Side trim plate pieces	Bottom trim plate piece	Top trim plate pieces
▪ Height: 31.1 cm (12.24 in)	▪ Width: 48.3 cm (19 in)	▪ Width: 48.3 cm (19 in)
▪ Width: 2.5 cm (0.985 in)	▪ Height: 2.84 cm (1.12 in)	▪ Height: 1.57 cm (0.62 in)

The following diagrams show the dimensions of an Infiniium S-Series oscilloscope in an N2902B rack mount.



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