



QMS 1200 Rack Mount Kit

Use the instructions in this guide to install your QMS 1200 device in a network rack.



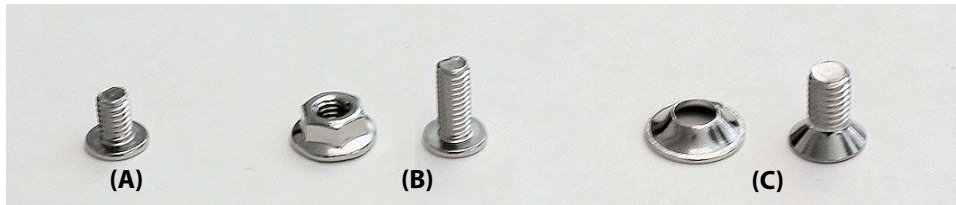
Rack Mount Kit Contents

Each WatchGuard® QMS 1200 device ships with a rack mount system.

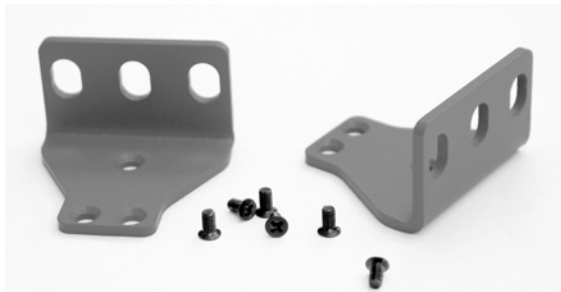


The rack mount system consists of:

- 4 L-shaped brackets
- 2 sliding rails, which can be separated into inner and outer rails
 - The inner rail has an extension safety lock tab
 - The outer rail includes a slide to extend its length. It also has an extension safety lock.
- 8 short flat-head screws (A)
- 8 longer flat head screws and 8 nuts (B)
- 12 flat countersink screws and 12 conical washers (C)



- 2 front ear brackets and 6 small screws.



Rack Mount Installation Precautions

When you install the QMS device in a rack, make sure you consider:

Elevated Operating Ambient Temperature

If you install the device in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Make sure the ambient temperature of the rack environment is within the certified operating range specified in the *WatchGuard QMS 1200 Hardware Guide*.

Reduced Air Flow

When you install the device in a rack, make sure that the amount of air flow required for safe operation of the equipment is not compromised.

Mechanical Loading

When you mount the device in the rack, avoid hazardous conditions caused by uneven mechanical loading.

Circuit Overloading

Make sure you connect the QMS device to the power supply circuit in such a way that there is no overloading of the circuits, and no impact on overcurrent protection and supply wiring.

Reliable Grounding

Make sure all rack-mounted equipment is correctly grounded. For example, make sure you use power strips instead of direct connections to the branch circuit.



CAUTION:

Do not use your slide/rail mounted device as a shelf or work space.

Rack Mount Rail Installation

Separate the inner rail from the outer rail

To install the inner rail, separate it from the outer rail first.

1. Place the rail as shown, and extend the inner rail until it locks.
2. Press the tab in the inner rail, and pull the inner rail from the outer rail until they completely separate.



After the inner and outer rails are separated, they look like this:

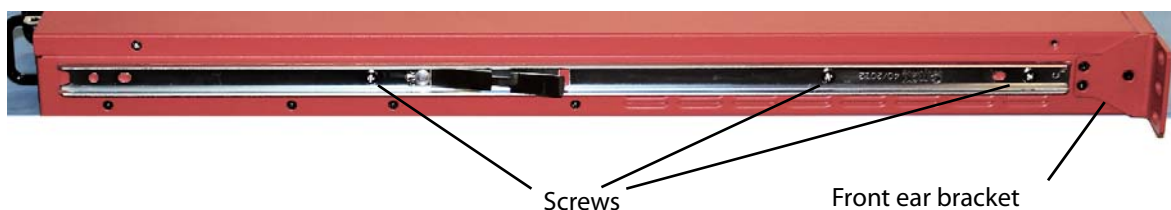


3. Repeat these steps to separate the second inner and outer rail.

Attach the inner rails and front mounting brackets to the QMS device

Use these steps to attach the inner rails and front mounting brackets to the QMS device.

1. Locate the six shorter flat-head screws (A), and the front ear brackets and screws.
2. Use three screws provided with the front ear brackets to attach a bracket to the front of the device on one side.
3. Position the inner rail adjacent to one side of the QMS device. Make sure that the safety lock tab faces out, and that the notched end of the rail is located at the rear of the unit.
4. Align the screw holes in the rail with the holes on the sides of the QMS device.
5. Attach the inner rail to the chassis with three of the shorter flat head screws.
6. Repeat these steps to attach the other inner rail and front ear bracket to the other side.



Attach the L-shaped brackets to the outer rails

The four L-shaped brackets secure the outer rails to the rack. You must attach the L-shaped brackets to the outer rails first.

1. Locate the eight flat head screws and the eight nuts (B).
2. Use two flat head screws and two nuts to connect an L-shaped bracket to the outer rail through any two of the four holes at the end of the outer rail. Position each nut on the outside of the bracket, and attach a screw from the inside of the outer rail through the bracket.



3. Do not fully tighten the nuts yet because you will need to adjust the location of the rear bracket for the depth of your rack.
Depending on the depth of your rack, you can position the bracket to meet the depth of the rack.
4. The outer rail includes a center rail that slides back and forth. Slide the center rail to expose the screw holes at the other end of the rail.



5. Use two flat head screws and two nuts to connect a second L-shaped bracket to the other end of the outer rail through any two of the four holes at the end of the outer rail. Position each nut on the outside of the bracket, and attach a screw from the inside of the outer rail through the bracket.



The fully assembled outer rail looks like this:



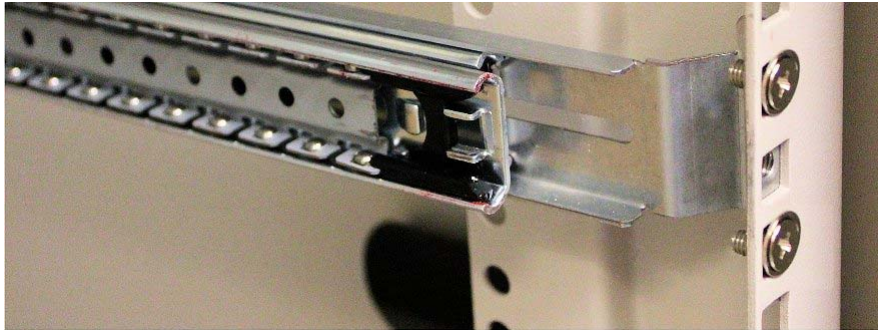
Do not fully tighten the nuts yet because you will need to adjust the location of the rear bracket for the depth of your rack.

6. Repeat these steps to attach the other two L-shaped brackets to the other outer rail.

Attach the outer rails to the rack

Use this procedure to mount the outer rails to the rack.

1. Locate the countersink screws and conical washers (C).
2. Use two screws and conical washers to connect the front bracket on the outer rail to the front post of the rack. Make sure that the sliding center rail is located toward the front of the rack and faces the center.



3. Extend and adjust the rear bracket depth to match the depth of the rack.
4. Use two countersink screws and conical washers to connect the rear bracket to the rear post of the rack.
5. Repeat these steps to attach the other rail to the other side of the rack. Make sure the sliding center section of each rail is positioned at the same depth within the rack.
6. Tighten the nuts and screws that attach the L-shaped brackets to each of the rails. You should use a wrench for this step.

Install the QMS device in the rack

Use these steps to complete installation of the QMS device in the rack.

1. Pull out the center rail on each side until the extension safety lock is locked.
2. Hold the QMS device with its front facing you.
3. Lift the QMS device and carefully slide the inner rails on each side of the chassis into the outer rail on each side of the rack.
4. Press the safety lock tabs on the inner rails, and slide the device into the rack until the front mounting brackets touch the front posts of the rack.
5. You can use rack screws and a washer (not included) to attach the front mounting brackets to the rack if you do not plan to frequently pull this device out of the rack.



Remove the QMS Device from the Rack

The rack mount system includes two sets of safety locks that you must press in order to remove the device from the rack. It could require two people to remove the device from the rack. One safety lock is located on the inner rail. The other safety lock is located on the center rail.

To remove the QMS device from the rack:

1. Remove any screws that attach the mounting bracket to the front of the rack.
2. Slide the device out about half way until the first safety locks catch on each side.
3. Press the metal safety locks on the inner rails on both sides of the device while you pull the device farther out.



4. Continue to slide the device out until the second safety locks catch on each side.
5. Press down the safety locks located on the inside of each center rail while you pull the device farther out.



6. Slide the device out of the rack.

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