Installation Guide

Rack Mount Accessory Installation Guide

for most Anritsu Handheld Instruments
Thick-Case (with Wire Tilt Bail),
Thin-Case (with Wire Tilt Bail),
Thin-Case (with New-Style, Integrated Tilt Bail),
and
Compact-Case
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Chapter 1 — Installation

1-1 Introduction
This publication provides instructions for mounting Anritsu handheld instruments into the Anritsu Rack Mount Accessory, part number 66864.

1-2 Compatible Instruments
This section lists describes the instrument types that are compatible with this rack-mount kit.

Thick-Case (with Wire Tilt Bail)
This instrument type installs into the A bracket without spacers.

Thin-Case (with Wire Tilt Bail)
This instrument type installs into the A bracket with the additional B spacer installed.

Thin-Case (with New Style Integrated Tilt Bail)
This instrument type installs into the A bracket with the additional D spacer installed.

Compact-Case
This instrument type installs into the A bracket with the additional B spacer installed and the tilt bail is removed and replaced with the C bracket.

Note In each of the sections describing the installation of an instrument with this mounting kit (sec 1-7 through 1-10), the Main Bracket (A) is dismounted from the rack and is lying on its back.

Note Thick-Case instruments with New Style Integrated Tilt Bail not compatible with Rack Mount Kit.
1-3 Tilt Bail Identification for Thick-Case Instruments

Wire Tilt Bail
Thick-cased instruments with the wire-style tilt-bail are compatible with the rack mount.

Figure 1-1. Wire Tilt Bail on Thick Cased Instrument
Integrated Tilt Bail

The integrated style tilt-bail on thick-cased instruments is not removable. Instruments with this type of tilt bail are not compatible with the Rack Mount Kit. Models affected are MS203xC, MT8220T.

Figure 1-2. Integrated Tilt Bail on Thick Case
1-4  Part Numbers

The Rack Mount Accessory Kit includes several parts, which are:

Table 1-1.  Anritsu Part Numbers for Rack Mount Accessory

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Type</th>
<th>Description</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>66864</td>
<td>Assembly:</td>
<td>NEXTGEN 76 mm RCKMNT ASSY</td>
<td></td>
</tr>
<tr>
<td>3-67748</td>
<td>Bracket:</td>
<td>NEXTGEN 76 mm RCKMNT BRKT</td>
<td>A</td>
</tr>
<tr>
<td>3-67749</td>
<td>Spacer:</td>
<td>NEXTGEN 76 mm RCKMNT SPCR</td>
<td>B</td>
</tr>
<tr>
<td>3-85158</td>
<td>Spacer:</td>
<td>NEXTGEN 76 mm RCKMNT SPCR</td>
<td>D</td>
</tr>
<tr>
<td>3-73379</td>
<td>Bracket:</td>
<td>NEXTGEN CMPCT-CASE BRKT</td>
<td>C</td>
</tr>
<tr>
<td>10580-00338</td>
<td>Document:</td>
<td>This Installation Guide</td>
<td></td>
</tr>
</tbody>
</table>

1-5  Instrument Mounting Dimensions

Table 1-2.  Mounting Dimensions

<table>
<thead>
<tr>
<th>Instrument Case Type</th>
<th>Case Depth</th>
<th>Use With Bracket and/or Spacer:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thick (with wire tilt bail)</td>
<td>9.5 cm</td>
<td>A only</td>
</tr>
<tr>
<td>Thin (with wire tilt bail)</td>
<td>8 cm</td>
<td>A and B</td>
</tr>
<tr>
<td>Thin (with new style integrated tilt bail)</td>
<td>8.6 cm</td>
<td>A and D</td>
</tr>
<tr>
<td>Compact</td>
<td>9.1 cm</td>
<td>A, B and C</td>
</tr>
<tr>
<td>Thick (with integrated, plastic bail)</td>
<td>10.0 cm</td>
<td>n/a</td>
</tr>
</tbody>
</table>
1-6 Rack Mount Accessory Overview

Four plastic latches hold Anritsu handheld instruments in the Rack Mount. These latches hold tight to instrument bumpers directly (with or without B or D spacers) or to the bumpers on Compact-Case Bracket (C). Tension on the latches prevents the latches from sliding away from the bumpers. Test the mounted instrument to ensure that the mounting tension meets your specifications. For tension adjustment, refer to the footnotes on page 1-6.

---

**Figure 1-3. Handheld Instrument Mounted in Rack**

1. Sample thick-case instrument (MS2036C VNA Master) mounted in rack assembly
2. Main Bracket for thick-case instruments (9.5 cm)
3. Plastic Bracket held tight by Latch Handle (one of four)
4. Latch Handle (one of four)
5. Mounting Holes for additional connectors (refer to Step 5 on page 1-6)
1. Remove the carry handle by removing the two screws (with straight-blade screwdriver) from your instrument and save handle, screws, and washers for future use.

2. Remove any spacers (if installed) from the Main Bracket (A) and save for future use.

3. Loosen the four latching brackets on the rack (refer to Figure 1-4) by lifting up the latch handles.²

4. Push the four latching brackets away from center.

5. Mount additional connectors (if needed) in the holes provided in the bracket.

6. Put instrument into Main Bracket (A), pushing it against the back and resting on the ledge of Main Bracket (A).

Note There are four large holes for Amphenol N and four small holes for Amphenol BNC.

7. Position the four plastic latching brackets onto the bumpers of the instrument by sliding each latching bracket as far as it will go over the instrument bumper.

8. Push down the four latch handles to secure your instrument.²

9. Mount the Main Bracket (A) and instrument onto a 19-inch (48.3 cm) rack.

Note The factory-applied “A” label marks the top of the main bracket.

The ledge is centered at the bottom of the main bracket (A). It provides additional instrument support should the instrument and mounting assembly be subject to severe forces.

1. This section applies only to thick-cased instruments that have the wire bail. Thick-cased instruments with the integrated bail (e.g., MT8220T) are not compatible with the Rack Mount kit.

2. To adjust latching bracket tension, pull handles up to loosen latching bracket, then tighten or loosen by adjusting the hex screw on the back side of each latching bracket. This tension is designed to prevent the latching brackets from sliding sideways, away from the instrument bumpers. Test the mounted instrument to be sure that mounting tension meets your specifications.
Mounting the Instrument

Figure 1-4. Rack Mount with Thick-Case Instrument

Figure 1-5. Thick-Case Instrument Mounted in Rack
1. Remove the carry handle by removing the two screws (with straight-blade screw driver) from your instrument and save handle, screws, and washers for future use.

2. Ensure that only the Thin-Case Spacer (B) is installed in the Main Bracket (A).

3. Ensure the tightness of the thumb screws that hold spacer (B) to bracket (A). Refer to Figure 1-6.

4. Loosen the four latching brackets by lifting up the latch handles.1

5. Push the four latching brackets away from center.

6. Mount additional connectors (if needed) in the holes provided in bracket (A).

7. Put instrument into bracket (A), pushing it against spacer (B) and resting the instrument on the ledge of bracket (A).

8. Position the four plastic latching brackets onto the bumpers of the instrument by sliding each latching bracket as far as it will go over the instrument bumper.

9. Push down the four latch handles to secure your instrument.1

10. Mount bracket (A) with spacer (B) and instrument onto 19-inch (48.3 cm) rack.

---

1. To adjust latching bracket tension, pull handles up to loosen latching bracket, then tighten or loosen by adjusting the hex screw on the back side of each latching bracket. This tension is designed to prevent the latching brackets from sliding sideways, away from the instrument bumpers. Test the mounted instrument to be sure that mounting tension meets your specifications.
Mounting the Instrument

Figure 1-6. Thin-Case Rack Mount with Instrument

Figure 1-7. Instrument Mounted in Thin-Case Rack
This section contains instructions for mounting Thin Case instruments with the new integrated bail.

**Mounting Instructions**

<table>
<thead>
<tr>
<th>Needed Rack Mount Kit Components</th>
<th>Sticker Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Main Bracket with four Latches and four Brackets</td>
<td>A</td>
</tr>
<tr>
<td>2. New Thin Case Spacer</td>
<td>D</td>
</tr>
</tbody>
</table>

1. Remove the carry handle by removing the two screws (with straight-blade screw driver) from your instrument and save handle, screws, and washers for future use.

2. Ensure that only the New Thin Case Spacer (D) is installed in the Main Bracket A and is resting on the ledge of bracket (A).

3. Ensure the tightness of the thumb screws that hold the spacer (D) to the bracket (A). Refer to Figure 1-11 on page 1-14.

4. Loosen the four latching brackets by lifting up the latch handles.

5. Push the four latching brackets away from center.

6. Mount additional connectors (if needed) in the holes provided in Main Bracket (A).

7. Slide instrument and attached spacer (D) into bracket (A), and resting on the ledge of bracket (A).

8. Position the four plastic latching brackets onto the bumpers of the instrument by sliding each latching bracket as far as it will go over the instrument bumper.

9. Push down the four latch handles to secure your instrument.¹

10. Mount bracket (A) with spacer (D) and instrument onto 19-inch (48.3 cm) rack.

¹ To adjust latching bracket tension, pull handles up to loosen latching bracket, then tighten or loosen by adjusting the hex screw on the back side of each latching bracket. This tension is designed to prevent the latching brackets from sliding sideways, away from the New Thin Case Spacer (D). Test the mounted instrument to be sure that mounting tension meets your specifications.
Mounting the Instrument

The upper holes are spaced wider than the lower holes due to the design of the tilt bail. Note that the factory-applied “D” label marks the top of the New Thin Case Spacer.

**Figure 1-8.** New Thin Case Rack Mount — Preparing the Instrument

**Figure 1-9.** Thin Case Instrument Mounted with New Thin Case Spacer (D)
Mounting Instructions for Compact-case Instruments

<table>
<thead>
<tr>
<th>Rack Mount Components</th>
<th>Sticker Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Main Bracket with four Latches and four Brackets</td>
<td>A</td>
</tr>
<tr>
<td>2. Thin-Case Spacer</td>
<td>B</td>
</tr>
<tr>
<td>3. Compact-Case Bracket</td>
<td>C</td>
</tr>
</tbody>
</table>

1. Remove the four screws from instrument’s tilt bail (using a Phillips-head screw driver) and keep the screws for Step 3.

2. Detach tilt bail from instrument and save tilt bail for future use.

3. Secure your instrument to the Compact-Case Bracket (C) with the four screws that were removed from the tilt bail in Step 1. Refer to Figure 1-10 on page 1-13. Note that the upper two holes are spaced wider apart than the bottom two holes due to the tilt-bail mounting configuration.

4. Ensure that Thin-Case Spacer (B) is resting on the ledge of Main Bracket (A) and that the lip of spacer B is over the top edge of bracket A. Note that the ledge is centered at the bottom of the bracket A.

5. Ensure the tightness of the thumb screws that hold the spacer (B) to the bracket (A). Refer to Figure 1-11 on page 1-14.

6. Loosen the four latching brackets by lifting up the latch handles.

7. Push the four latching brackets away from center.

8. Mount additional connectors (if needed) in the holes provided in Main Bracket (A).

9. Slide instrument and attached bracket (C) into bracket (A), pushing it against the spacer (B) and resting on the ledge of bracket (A).

10. Position the four plastic latching brackets onto the bumpers of the bracket (C) by sliding each latching bracket as far as it will go over the bracket bumper.

11. Push down the four latch handles to secure your instrument.1

12. Mount bracket (A) with spacer (B), bracket (C), and instrument onto 19-inch (48.3 cm) rack.

---

1. To adjust latching bracket tension, pull handles up to loosen latching bracket, then tighten or loosen by adjusting the hex screw on the back side of each latching bracket. This tension is designed to prevent the latching brackets from sliding sideways, away from the Compact-Case Bracket (C). Test the mounted instrument to be sure that mounting tension meets your specifications.
Mounting the Instrument

The upper holes are spaced wider than the lower holes to follow the design of the tilt bail. Note that the “C” label marks the top of the Compact-Case Bracket.

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*Figure 1-10. Compact-Case Rack Mount — Preparing the Instrument*
Figure 1-11. Compact-Case Rack Mount — Mounting the Instrument

Figure 1-12. Instrument Mounted in Compact-Case Rack
1-11 Rack Mount Assembly Dimensions

Spacing of the openings in the Main Bracket, the Thin and Thin Case New Style spacers, and Compact bracket are shown in these figures:

Main Bracket (A)

Figure 1-13. Main Bracket (A) Dimensions
Figure 1-14. Thin-Case Spacer (B) Dimensions
Case Spacer (D) (for New Style Integrated Tilt Bail)

Figure 1-15. Thin-Case Bracket (D) Dimensions (for New Style Integrated Tilt Bail)
Compact-Case Bracket (C)

Figure 1-16. Compact-Case Bracket (C) Dimensions

All dimensions in millimeters (mm)
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