INTRODUCTION
Convertible mounting brackets support installation of CommScope Multiband Combiners (MBC) such as Diplexers and Triplexers using a variety of mounting methods.

Using the integrated stacking tabs, devices can be assembled together in multiples and mounted to a common support.

All hardware required for stacking and conversion between mounting methods is included with the product, allowing it to mount to standard pole, wall, rods, framing channels, or rack.

The MBC can be installed indoors as well as in an unprotected outdoor environment. It can be installed in any orientation.

However, orienting the MBC with the AISG connector (where present) facing down is preferred whenever practical. This ensures an extra measure of protection against weather exposure that is independent of installation workmanship.

TECHNICAL SUPPORT
Obtain further product information at www.commscope.com or from your local CommScope Sales Representative.

The CommScope Customer Technical Support center is available 24 hours/day, 7 days/week by calling:
- (800) 255-1479 option #3 (North America)
- +1 (708) 349-3300 (International)

1 Identify and Inspect Parts. The product includes the following items:
- (1) Single or Twin Multiband Combiner with brackets
- (2) Band clamps
- (2) Spare screws, M5×18 (not included with Single)
- (1) Installation Instruction

2 Obtain Tools and Supplies. The following items are required or recommended:
- 7 mm or 9/32” hex socket wrench
- 5 mm or 3/16” hex (Allen) screwdriver
- #3 Phillips screwdriver
- Suitable hardware for mounting to other than pole
- (1-2) AWG 5-10 (5-16 mm²) ground cables with terminals

3 Repositioning and/or Moving Brackets. The Convertible Mounting Brackets can be rotated and repositioned into four alternate positions as required for the different mounting methods:
1. Pole or rod mounting
2. Horizontal or rack mounting
3. Vertical or wall mounting
4. Optional for rack mounting

Loosen and back out the two screws. To change between positions 1-2-3 it is not necessary to completely remove the screws.

Lift and rotate the bracket to the desired position. Ensure the bracket is seated onto the locating bosses in the housing before re-tightening the screws. Recommended torque 3.6 Nm (2.7 ft-lbs).

If moving bracket to a new location, also move the gasket washers in the MBC body recesses. Remove thread protection plugs and install these in the previous location.

1 Identify and Inspect Parts
2 Obtain Tools and Supplies
3 Repositioning and/or Moving Brackets
4 Optional for Rack Mounting
Stacking. Two or more twin MBCs can be stacked together for mounting to threaded rods. Three twins can be stacked for rack mounting. A single MBC can be stacked to a twin for pole or wall mounting.

Remove the Convertible Mounting Brackets from any locations where they are not needed. Also remove the gasket washers with the brackets. Retain the M5×18 mounting screws.

Remove the thread protection plugs from the stacking tabs to be used. Install these plugs in any open threads where a Convertible Mounting Bracket was removed.

Align the stacking tabs of the two MBC units and join together using 4 ea screws M5×18. Use retained screws and spare screws as needed. Tighten all screws securely. Recommended torque 3.6 Nm (2.7 ft-lbs).

Reinstall or reposition Convertible Mounting Brackets according to the intended application. Place gasket washers between the bracket and MBC body.

Pole Mounting. Use the two included band clamps. Insert the open end into one of the rectangular apertures in the Convertible Mounting Bracket and out the other aperture in the same bracket. Align the MBC with the pole. Insert the open end of the band into the buckle and push through until snug around the pole. Close the buckle and engage the locking tabs. Tighten both clamps firmly. Recommended torque 5 Nm (3.7 ft-lbs).
**Horizontal Mounting to Framing Channels.** Move one bracket to place it opposite the other so that both brackets are on the same end of the body. Reposition both brackets to position 2. Attach the assembly to parallel framing channels using suitable bolts (3/8” or M10).

**Vertical Mounting to Wall or Framing Channels.** Reposition both brackets to position 3. Attach to wall using 2-4 suitable screws with diameter 1/4” – 3/8” (6-10 mm). Or attach to framing channels using suitable bolts (3/8” or M10).

**Suspending on Threaded Rods.** Stack two or more twin MBC units together as shown in 4 above. Leave brackets on the two end units in position 1. Remove brackets on the middle unit(s) and install thread protection plugs. Attach the assembly to threaded rods with diameter 3/8” or 10 mm. Secure with nuts and lock washers at top and bottom of brackets.
9 Rack Mounting. Stack three MBC units together as shown in 4 above. Attach front brackets on the two end units in position 4 (position 2 optional). Remove all other brackets and install thread protection plugs. Retain the M5×18 mounting screws. Mount the assembly to a standard 19” rack with four suitable screws. Inner and outer pairs of holes are provided to match the rack pattern for centering in 3U or 4U (compare pictures below). To install in a 23” rack, extend the width of the assembly by attaching three additional brackets using retained and spare M5×18 screws as shown below.

Attach Ground Cables. Attach an AWG 5-10 (5-16 mm²) ground cable to each ground stud on the MBC units. Tighten the nut to 6 Nm (4.5 ft-lbs) torque using a 10 mm wrench. Avoiding sharp bends, route the ground cables to the common frame or ground bar. Trim, and attach with suitable terminals and hardware.

Connect RF Jumpers. Tighten RF connections to 25-29 Nm (18-22 ft-lbs) torque. In outdoor installations, fit caps part no. DF-CAPKIT on unused ports. Wrap with weatherproofing materials as needed.

Install RET control cables. See Telett® RET Control Cables Guide, bulletin #639581 available on www.commscope.com. On unused AISG ports, ensure the protective cap is installed and firmly tightened (by hand only). To mitigate the risk of weather exposure where the MBC is mounted with the AISG connector facing up, take extra care to follow the correct procedure.