COMMSCOPE®

PRODUCT NewsFLASH

BSAMNT-SBS Side by Side Mounts for Hex and Octo Port Antennas: New Product

For **4x4 MIMO and beamforming applications**, either two hex port or two octo port antennas are often used side by side on a single sector. In order to ensure **best performance**, it is crucial that the two beams overlap exactly. That is best achieved by using a **side by side mounting bracket,** which ensures **both antennas have the same boresight direction** and still maintain ~**30dB isolation** between the antennas. In order to achieve that, CommScope has developed three side by side mounting kits.

The **BSAMNT-SBS-1-2** is used for two 300mm (12 in) wide hex or octo port antennas. It has two mount points (top and bottom).

The **BSAMNT-SBS-2-2** and the **BSAMNT-SBS-2-3** are used for either 350mm (14 in) or 457mm (18 in) wide hex or octo port antennas like JAHH 65°/45° octo port or SBNHH/NHH 45° hex port antennas. The brackets for these two BSAMNT-SBS-2-X kits are designed to support both antenna types. They ship by default in a position to support 14 in wide antennas and can be reversed for use with 18 in wide antennas.

The BSAMNT-SBS-2-2 has two mount points (top and bottom) supporting the lighter JAHH 65° and 45° antennas. The BSAMNT-SBS-2-3 has three mount points (top, bottom and center) supporting the heavier 45° JAHH antennas and also the longer 45° hex port antennas of the SBNHH and NHH family.

Please see the table below for a detailed breakdown which bracket to use for which antenna type.

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CommScope has performed intensive testing to ensure that the brackets hold the heavy weight of these antennas including these testing methods:

- Visual/physical exam of brackets and antennas
- Antennas tested for RL ISO & PIM before/after tests
- Extensive wind load testing to ensure same max wind speed as single antenna
- Design Validation Testing on Side by Side Mount Kit Assembly with JAHH Antennas
  - Sinusoidal Vibration — IEC 60068-2-6
  - Broadband Vibration — IEC 60068-2-64
  - Shock & Bump — IEC 60068-2-27
  - Survival Wind Speed — EIA/TIA-222-G
  - Corrosion Resistance — IEC 60068-2-11
  - Package Drop — IEC 60068-2-31
  - Vertical loading — CommScope procedure

Product Highlights

- **Simplifies installation**
- **Best 4X MIMO and beamforming performance** by ensuring:
  - Consistent distance between two antennas on each sector
  - Identical boresight direction of both antennas
  - ~30dB isolation between both antennas
- Tested to **same wind load spec** as the individual antenna
- Allows **mechanical tilting** if needed
- Includes all brackets to mount 2 antennas side by side (Order one kit for every 2 antennas)

Ordering Information

These products are available for North America. Please see details below for the BSAMNT-SBS mounts.

Part Number	Supported Antennas	Quantity needed for 2 Antennas	Supported Radome Widths	Number of Mount Points	Gap between Antennas
BSAMNT-SBS-1-2	SBNHH 65° and 85° NHH 65° and 85°	1	2 x 12 in	2	~ 3 3/8 inches (87mm)
BSAMNT-SBS-2-2	JAHH-65A/B/C JAHH-45A NHH-45A SBNHH-1D45A/B	1	2 x 14 in or 2 x 18 in	2	~ 2 inches (50mm)
BSAMNT-SBS-2-3	JAHH-45B/C SBNHH-1D45C NHH-45B/C	1	2 x 14 in or 2 x 18 in	3	~ 2 inches (50mm)

Please contact your local CommScope Sales Representative for more information.

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