

6-port sector antenna, 2x 790–960 and 4x 1710–2690 MHz, 65° HPBW, RET compatible

- Utilizes AccuRET® actuator(s) on the back of the antenna

Electrical Specifications

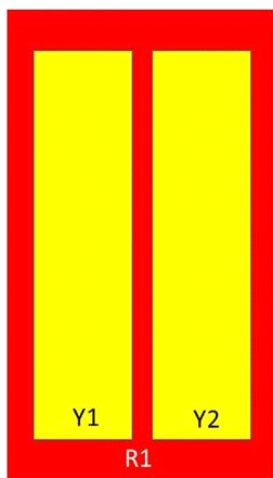
| Frequency Band, MHz | 790–896 | 870–960 | 1710–1880 | 1850–1990 | 1920–2180 | 2300–2500 | 2500–2690 |
|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Gain, dBi | 15.9 | 16.0 | 17.6 | 17.5 | 17.9 | 17.6 | 18.2 |
| Beamwidth, Horizontal, degrees | 62 | 61 | 70 | 68 | 67 | 58 | 60 |
| Beamwidth, Vertical, degrees | 10.5 | 9.6 | 5.6 | 5.3 | 5.1 | 4.3 | 4.1 |
| Beam Tilt, degrees | 0–10 | 0–10 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 15 | 15 | 14 | 14 | 15 | 14 | 14 |
| Front-to-Back Ratio at 180°, dB | 29 | 30 | 29 | 30 | 24 | 26 | 29 |
| Isolation, Cross Polarization, dB | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| VSWR Return Loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port, maximum, watts | 350 | 350 | 350 | 350 | 350 | 300 | 300 |
| Polarization | ±45° | ±45° | ±45° | ±45° | ±45° | ±45° | ±45° |
| Impedance | 50 ohm | 50 ohm | 50 ohm | 50 ohm | 50 ohm | 50 ohm | 50 ohm |

Electrical Specifications, BASTA*

| Frequency Band, MHz | 790–896 | 870–960 | 1710–1880 | 1850–1990 | 1920–2180 | 2300–2500 | 2500–2690 |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Gain by all Beam Tilts, average, dBi | 15.5 | 15.7 | 17.4 | 17.3 | 17.5 | 17.4 | 18.0 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.4 | ±0.2 | ±0.3 | ±0.5 | ±0.6 | ±0.7 |
| Gain by Beam Tilt, average, dBi | 0° 15.4 5° 15.4 10° 15.2 | 0° 15.5 5° 15.6 10° 15.2 | 2° 17.2 7° 17.4 12° 17.2 | 2° 17.3 7° 17.5 12° 17.4 | 2° 17.5 7° 17.8 12° 17.6 | 2° 17.5 7° 17.9 12° 17.5 | 2° 17.7 7° 18.1 12° 17.7 |
| Beamwidth, Horizontal Tolerance, degrees | ±2.7 | ±1.8 | ±3.2 | ±2.9 | ±5.5 | ±5.2 | ±5.8 |
| Beamwidth, Vertical Tolerance, degrees | ±0.8 | ±0.7 | ±0.3 | ±0.2 | ±0.3 | ±0.2 | ±0.2 |
| USLS, beampeak to 20° above beampeak, dB | 17 | 16 | 16 | 17 | 17 | 16 | 18 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25 | 27 | 26 | 25 | 23 | 21 | 24 |
| CPR at Boresight, dB | 24 | 24 | 21 | 21 | 20 | 17 | 17 |
| CPR at Sector, dB | 11 | 11 | 12 | 10 | 10 | 5 | 6 |

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

Array Layout



| Array | Freq (MHz) | Conns |
|-------|------------|-------|
| R1 | 790-960 | 1-2 |
| Y1 | 1710-2690 | 3-4 |
| Y2 | 1710-2690 | 5-6 |

Left Right
Bottom

(Sizes of colored boxes are not true depictions of array sizes)

General Specifications

| | |
|---------------------------------|---------------------------------|
| Operating Frequency Band | 1710 – 2690 MHz 790 – 960 MHz |
| Antenna Type | Sector |
| Band | Multiband |
| Performance Note | Outdoor usage |

Mechanical Specifications

| | |
|---|--|
| RF Connector Quantity, total | 6 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, high band | 4 |
| RF Connector Interface | 7-16 DIN Female |
| Color | Light gray |
| Grounding Type | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Radiator Material | Aluminum |
| Radome Material | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Location | Bottom |
| Wind Loading, frontal | 306.0 N @ 150 km/h 68.8 lbf @ 150 km/h |
| Wind Loading, lateral | 253.0 N @ 150 km/h 56.9 lbf @ 150 km/h |
| Wind Loading, maximum | 589.0 N @ 150 km/h 132.4 lbf @ 150 km/h |

CVV65BSX-M | CVV65BSX-3X2

Wind Speed, maximum 241 km/h | 150 mph

Dimensions

Length 1974.0 mm | 77.7 in
Width 301.0 mm | 11.9 in
Depth 181.0 mm | 7.1 in
Net Weight, without mounting kit 18.8 kg | 41.4 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator CVV65BSX-3X2

Packed Dimensions

Length 2161.0 mm | 85.1 in
Width 411.0 mm | 16.2 in
Depth 298.0 mm | 11.7 in
Shipping Weight 32.0 kg | 70.5 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives



Included Products

BSAMNT-OFFSET — Forward Offset Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

BSAMNT-OFFSET



Forward Offset Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members

General Specifications

| | |
|-------------------------|---------------------|
| Application | Outdoor |
| Includes | Brackets Hardware |
| Package Quantity | 1 |

Mechanical Specifications

| | |
|----------------------|------------------|
| Color | Silver |
| Material Type | Galvanized steel |

Dimensions

| | |
|-------------------------------------|-------------------|
| Compatible Diameter, maximum | 115.0 mm 4.5 in |
| Compatible Diameter, minimum | 60.0 mm 2.4 in |
| Net Weight | 3.5 kg 7.7 lb |

Regulatory Compliance/Certifications

| | |
|----------------------------|--|
| Agency | Classification |
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