10-port sector antenna, 2x 694–960 and 4x 1695-2690 MHz 65° HPBW and 4x 1695-2180 MHz 2x 33° HPBW, 5x RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration

### Electrical Specifications

<table>
<thead>
<tr>
<th></th>
<th>R1</th>
<th>R1</th>
<th>HB-Dual-Beam2</th>
<th>HB-Dual-Beam2</th>
<th>Y1-Y2</th>
<th>Y1-Y2</th>
<th>Y1-Y2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain, dBi</strong></td>
<td>16.6</td>
<td>16.9</td>
<td>18.1</td>
<td>19.2</td>
<td>16.8</td>
<td>17.3</td>
<td>17.9</td>
</tr>
<tr>
<td><strong>Beam Centers, Horizontal, degrees</strong></td>
<td>±27</td>
<td>±27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal, degrees</strong></td>
<td>69</td>
<td>65</td>
<td>32</td>
<td>30</td>
<td>63</td>
<td>62</td>
<td>63</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical, degrees</strong></td>
<td>8.5</td>
<td>7.4</td>
<td>7.2</td>
<td>6.6</td>
<td>7.4</td>
<td>6.6</td>
<td>5.5</td>
</tr>
<tr>
<td><strong>Beam Tilt, degrees</strong></td>
<td>0–10</td>
<td>0–10</td>
<td>2–12</td>
<td>2–12</td>
<td>2–12</td>
<td>2–12</td>
<td>2–12</td>
</tr>
<tr>
<td><strong>USLS (First Lobe), dB</strong></td>
<td>16</td>
<td>17</td>
<td>16</td>
<td>15</td>
<td>18</td>
<td>18</td>
<td>16</td>
</tr>
<tr>
<td><strong>Front-to-Back Ratio at 180°, dB</strong></td>
<td>35</td>
<td>35</td>
<td>31</td>
<td>36</td>
<td>38</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td><strong>Isolation, Cross Polarization, dB</strong></td>
<td>28</td>
<td>28</td>
<td>25</td>
<td>25</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td><strong>Isolation, Inter-band, dB</strong></td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td><strong>Isolation, Beam to Beam, dB</strong></td>
<td>17</td>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>**VSWR</td>
<td>Return Loss, dB**</td>
<td>1.46</td>
<td>1.46</td>
<td>1.46</td>
<td>1.46</td>
<td>1.46</td>
<td>1.46</td>
</tr>
<tr>
<td><strong>PIM, 3rd Order, 2 x 20 W, dBc</strong></td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
</tr>
<tr>
<td><strong>Input Power per Port at 50°C, maximum, watts</strong></td>
<td>300</td>
<td>300</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
</tr>
</tbody>
</table>

### Electrical Specifications, BASTA*

<table>
<thead>
<tr>
<th></th>
<th>R1</th>
<th>R1</th>
<th>HB-Dual-Beam2</th>
<th>HB-Dual-Beam2</th>
<th>Y1-Y2</th>
<th>Y1-Y2</th>
<th>Y1-Y2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain by all Beam Tilts, average, dBi</strong></td>
<td>16.3</td>
<td>16.6</td>
<td>17.5</td>
<td>18.8</td>
<td>16.3</td>
<td>16.8</td>
<td>17.4</td>
</tr>
<tr>
<td><strong>Gain by all Beam Tilts Tolerance, dBi</strong></td>
<td>±0.4</td>
<td>±0.4</td>
<td>±1</td>
<td>±0.6</td>
<td>±0.7</td>
<td>±0.7</td>
<td>±0.8</td>
</tr>
<tr>
<td><strong>Gain by Beam Tilt, average, dBi</strong></td>
<td>0 °</td>
<td>16.2</td>
<td>0 °</td>
<td>16.5</td>
<td>2 °</td>
<td>17.5</td>
<td>2 °</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal Tolerance, degrees</strong></td>
<td>±1.6</td>
<td>±2.3</td>
<td>±2.4</td>
<td>±1.6</td>
<td>±3.6</td>
<td>±2.8</td>
<td>±4.9</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical Tolerance, degrees</strong></td>
<td>±0.5</td>
<td>±0.6</td>
<td>±0.4</td>
<td>±0.3</td>
<td>±0.6</td>
<td>±0.5</td>
<td>±0.5</td>
</tr>
<tr>
<td><strong>USLS, beampeak to 20° above beampeak, dB</strong></td>
<td>16</td>
<td>17</td>
<td>15</td>
<td>15</td>
<td>13</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td><strong>Front-to-Back Total Power at 180° ± 30°, dB</strong></td>
<td>27</td>
<td>25</td>
<td>24</td>
<td>29</td>
<td>28</td>
<td>27</td>
<td>26</td>
</tr>
<tr>
<td><strong>CPR at Boresight, dB</strong></td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>20</td>
<td>23</td>
<td>21</td>
<td>19</td>
</tr>
<tr>
<td><strong>CPR at Sector, dB</strong></td>
<td>10</td>
<td>10</td>
<td>7</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>7</td>
</tr>
</tbody>
</table>

* 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](https://www.commscope.com).
Array Layout

<table>
<thead>
<tr>
<th>Array</th>
<th>Freq (MHz)</th>
<th>Conn</th>
<th>RET (SRET)</th>
<th>AIGS RET UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>694-960</td>
<td>1-2</td>
<td>1</td>
<td>CPxxxxxxxxxxxR1</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2690</td>
<td>3-4</td>
<td>2</td>
<td>CPxxxxxxxxxxxY1</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2690</td>
<td>5-6</td>
<td>3</td>
<td>CPxxxxxxxxxxxY2</td>
</tr>
<tr>
<td>Y3</td>
<td>1710-2400</td>
<td>7-8</td>
<td>4</td>
<td>CPxxxxxxxxxxxY3</td>
</tr>
<tr>
<td>Y4</td>
<td>1710-2400</td>
<td>9-10</td>
<td>5</td>
<td>CPxxxxxxxxxxxY4</td>
</tr>
</tbody>
</table>

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

Port Configuration
General Specifications

**Operating Frequency Band**
- 1695 – 2180 MHz
- 1695 – 2690 MHz
- 694 – 960 MHz

**Antenna Type**
- Multibeam

**Band**
- Multiband

**Performance Note**
- Outdoor usage

**Total Input Power, maximum**
- 1000 W @ 50 °C

Mechanical Specifications

**RF Connector Quantity, total**
- 10

**RF Connector Quantity, low band**
- 2

**RF Connector Quantity, high band**
- 8

**RF Connector Interface**
- 4.3-10 Female

**Grounding Type**
- RF connector inner conductor and body grounded to reflector and mounting bracket

**Radiator Material**
- Low loss circuit board

**Radome Material**
- Fiberglass, UV resistant

**Reflector Material**
- Aluminum

**RF Connector Location**
- Bottom

**Wind Loading, frontal**
- 477.0 N @ 150 km/h
- 107.2 lbf @ 150 km/h

**Wind Loading, lateral**
- 409.0 N @ 150 km/h
- 91.9 lbf @ 150 km/h

**Wind Loading, maximum**
- 1010.0 N @ 150 km/h
- 227.1 lbf @ 150 km/h

**Wind Speed, maximum**
- 241 km/h | 150 mph

Dimensions

**Length**
- 2688.0 mm | 105.8 in

**Width**
- 350.0 mm | 13.8 in

**Depth**
- 208.0 mm | 8.2 in

**Net Weight, without mounting kit**
- 35.0 kg | 77.2 lb

Remote Electrical Tilt (RET) Information

**Input Voltage**
- 10–30 Vdc

**Internal RET**
- High band (4) | Low band (1)

**Power Consumption, idle state, maximum**
- 1 W

**Power Consumption, normal conditions, maximum**
- 8 W

**Protocol**
- 3GPP/AISG 2.0 (Single RET)

**RET Hardware**
- CommRET v2

**RET Interface**
- 8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity

2 female | 2 male

Packed Dimensions

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2830.0 mm</td>
<td>111.4 in</td>
</tr>
<tr>
<td>Width</td>
<td>460.0 mm</td>
<td>18.1 in</td>
</tr>
<tr>
<td>Depth</td>
<td>350.0 mm</td>
<td>13.8 in</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>48.6 kg</td>
<td>107.1 lb</td>
</tr>
</tbody>
</table>

Regulatory Compliance/Certifications

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

**Classification**
- Compliant by Exemption
- Designed, manufactured and/or distributed under this quality management system
- Above Maximum Concentration Value (MCV)

Included Products

**BSAMNT-4** — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

**Performance Note**
Severe environmental conditions may degrade optimum performance
Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

**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** 6.6 kg | 14.6 lb

**Regulatory Compliance/Certifications**

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

**Classification**
Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)