4-port sector antenna, 2x 790–960 and 2x 1710–2180 MHz, 65° HPBW, RET compatible

Electrical Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>15.8</td>
<td>16.7</td>
<td>18.7</td>
<td>18.6</td>
<td>18.3</td>
</tr>
<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>68</td>
<td>65</td>
<td>63</td>
<td>62</td>
<td>62</td>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>10.0</td>
<td>9.3</td>
<td>5.2</td>
<td>5.0</td>
<td>4.8</td>
</tr>
<tr>
<td>Beam Tilt, degrees</td>
<td>2–12</td>
<td>2–12</td>
<td>1–8</td>
<td>1–8</td>
<td>1–8</td>
</tr>
<tr>
<td>USLS (First Lobe), dB</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>28</td>
<td>29</td>
<td>33</td>
<td>32</td>
<td>31</td>
</tr>
<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Isolation, Inter-band, dB</td>
<td>37</td>
<td>35</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>VSWR</td>
<td>Return Loss, dB</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</td>
<td>14.0</td>
</tr>
<tr>
<td>PIM, 3rd Order, 2 x 20 W, dBc</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
</tr>
<tr>
<td>Input Power per Port, maximum, watts</td>
<td>500</td>
<td>500</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Polarization</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
</tr>
<tr>
<td>Impedance</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></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>15.9</td>
<td>16.3</td>
<td>18.1</td>
<td>18.0</td>
<td>17.9</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.7</td>
<td>±0.3</td>
<td>±0.3</td>
<td>±0.3</td>
<td>±0.4</td>
</tr>
<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>2 °</td>
<td>16.0</td>
<td>2 °</td>
<td>16.3</td>
<td>1 °</td>
</tr>
<tr>
<td>7 °</td>
<td>15.9</td>
<td>7 °</td>
<td>16.4</td>
<td>4 °</td>
<td>18.2</td>
</tr>
<tr>
<td>12 °</td>
<td>15.6</td>
<td>12 °</td>
<td>15.9</td>
<td>8 °</td>
<td>18.0</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±2.3</td>
<td>±2.5</td>
<td>±2.4</td>
<td>±2.6</td>
<td>±3.4</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.6</td>
<td>±0.4</td>
<td>±0.2</td>
<td>±0.2</td>
<td>±0.3</td>
</tr>
<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>17</td>
<td>18</td>
<td>16</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>24</td>
<td>23</td>
<td>29</td>
<td>28</td>
<td>26</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>26</td>
<td>24</td>
<td>18</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>CPR at Sector, dB</td>
<td>15</td>
<td>10</td>
<td>10</td>
<td>11</td>
<td>12</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.
Array Layout

<table>
<thead>
<tr>
<th>Array</th>
<th>Freq (MHz)</th>
<th>Conns</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>790-960</td>
<td>1-2</td>
</tr>
<tr>
<td>B1</td>
<td>1710-2180</td>
<td>3-4</td>
</tr>
</tbody>
</table>

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

General Specifications

Operating Frequency Band: 1710 – 2180 MHz | 790 – 960 MHz

Antenna Type: Sector
Band: Multiband
Performance Note: Outdoor usage | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN

Mechanical Specifications

RF Connector Quantity, total: 4
RF Connector Quantity, low band: 2
RF Connector Quantity, high band: 2
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 | Low loss circuit board
Radome Material: Fiberglass, UV resistant
RF Connector Location: Bottom
Wind Loading, frontal: 681.0 N @ 150 km/h | 153.1 lbf @ 150 km/h
Wind Loading, lateral: 216.0 N @ 150 km/h | 48.6 lbf @ 150 km/h
Wind Speed, maximum: 241 km/h | 150 mph
Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Net Weight, without mounting kit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>1998.0 mm</td>
<td>301.0 mm</td>
<td>181.0 mm</td>
<td>22.8 kg</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>78.7 in</td>
<td>11.9 in</td>
<td>7.1 in</td>
<td></td>
</tr>
</tbody>
</table>

Remote Electrical Tilt (RET) Information

**Model with Factory Installed AISG 2.0 Actuator** DBXDH-6565B-A2M

Packed Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>2314.0 mm</td>
<td>411.0 mm</td>
<td>284.0 mm</td>
<td>35.0 kg</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>91.1 in</td>
<td>16.2 in</td>
<td>11.2 in</td>
<td></td>
</tr>
</tbody>
</table>

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS 2011/65/EU</td>
<td>Compliant by Exemption</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>China RoHS SJ/T 11364-2014</td>
<td>Above Maximum Concentration Value (MCV)</td>
</tr>
<tr>
<td>CE</td>
<td>Compliant with the relevant CE product directives</td>
</tr>
</tbody>
</table>

Included Products

**BSAMNT-3** — 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

<table>
<thead>
<tr>
<th>Application</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes</td>
<td>Brackets</td>
</tr>
<tr>
<td>Package Quantity</td>
<td>1</td>
</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Color</th>
<th>Silver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Type</td>
<td>Galvanized steel</td>
</tr>
</tbody>
</table>

Dimensions

- **Compatible Diameter, maximum**: 114.3 mm | 4.5 in
- **Compatible Diameter, minimum**: 61.0 mm | 2.4 in
- **Net Weight**: 6.2 kg | 13.7 lb

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS 2011/65/EU</td>
<td>Compliant by Exemption</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>China RoHS SJ/T 11364-2014</td>
<td>Above Maximum Concentration Value (MCV)</td>
</tr>
<tr>
<td>CE</td>
<td>Compliant with the relevant CE product directives</td>
</tr>
</tbody>
</table>