4-port multibeam antenna, 4x 1695–2400 MHz, 2x 38° HPBW, 2x RET

- Enhances network capacity through six sectors site application with only three antenna faces
- Maximizes frequency spectrum utilization to increase Average Revenue Per User (ARPU)
- Reduces antenna count to minimize CapEx and OpEx costs
- High gain with excellent sector edge roll-off and azimuth sidelobe suppression
- Each antenna downtilt can be independently adjusted for greater flexibility in network optimization

### Electrical Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain, dBi</strong></td>
<td>19.1</td>
<td>19.6</td>
<td>19.9</td>
<td>19.1</td>
</tr>
<tr>
<td><strong>Beam Centers, Horizontal, degrees</strong></td>
<td>±27</td>
<td>±27</td>
<td>±27</td>
<td>±27</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal, degrees</strong></td>
<td>38</td>
<td>36</td>
<td>34</td>
<td>30</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical, degrees</strong></td>
<td>7.5</td>
<td>7.0</td>
<td>6.5</td>
<td>5.9</td>
</tr>
<tr>
<td><strong>Beam Tilt, degrees</strong></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>20</td>
<td>20</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td><strong>Front-to-Back at 180°, dB</strong></td>
<td>34</td>
<td>37</td>
<td>37</td>
<td>30</td>
</tr>
<tr>
<td><strong>Isolation, Cross Polarization, dB</strong></td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td><strong>Isolation, Inter-band, dB</strong></td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>**VSFR</td>
<td>Return Loss, dB**</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</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>
</tr>
<tr>
<td><strong>Input Power per Port, maximum, watts</strong></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>
</tr>
<tr>
<td><strong>Impedance</strong></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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain by all Beam Tilts, average, dBi</strong></td>
<td>18.7</td>
<td>19.3</td>
<td>19.6</td>
<td>18.7</td>
</tr>
<tr>
<td><strong>Gain by all Beam Tilts Tolerance, dB</strong></td>
<td>±0.5</td>
<td>±0.4</td>
<td>±0.6</td>
<td>±0.6</td>
</tr>
<tr>
<td><strong>Gain by Beam Tilt, average, dBi</strong></td>
<td>2 °</td>
<td>18.6</td>
<td>2 °</td>
<td>19.1</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal Tolerance, degrees</strong></td>
<td>±1.3</td>
<td>±1.3</td>
<td>±2.2</td>
<td>±1.7</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical Tolerance, degrees</strong></td>
<td>±0.4</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.2</td>
</tr>
<tr>
<td><strong>USLS, beampeak to 20° above beampeak, dB</strong></td>
<td>14</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>Front-to-Back Total Power at 180° ± 30°, dB</strong></td>
<td>28</td>
<td>29</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td><strong>CPR at Boresight, dB</strong></td>
<td>23</td>
<td>24</td>
<td>19</td>
<td>13</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).

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Array Layout

<table>
<thead>
<tr>
<th>Array</th>
<th>Freq (MHz)</th>
<th>Conns</th>
<th>RET (SRET)</th>
<th>AISG RET UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>1695-2400</td>
<td>1-2</td>
<td>1</td>
<td>CPxxxxxxxxxxxxxxB1</td>
</tr>
<tr>
<td>B2</td>
<td>1695-2400</td>
<td>3-4</td>
<td>2</td>
<td>CPxxxxxxxxxxxxxxB2</td>
</tr>
</tbody>
</table>

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

General Specifications

Operating Frequency Band: 1695 – 2400 MHz
Antenna Type: Multibeam
Band: Single band
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, high band: 4
RF Connector Interface: 4.3-10 Female
Color: Light gray
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: 221.0 N @ 150 km/h | 49.7 lbf @ 150 km/h
Wind Loading, lateral: 185.0 N @ 150 km/h | 41.6 lbf @ 150 km/h
Wind Loading, maximum: 105.4 lbf @ 150 km/h | 469.0 N @ 150 km/h
Wind Speed, maximum: 241 km/h | 150 mph
Dimensions

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1400.0 mm</td>
<td>55.1 in</td>
</tr>
<tr>
<td>Width</td>
<td>350.0 mm</td>
<td>13.8 in</td>
</tr>
<tr>
<td>Depth</td>
<td>208.0 mm</td>
<td>8.2 in</td>
</tr>
<tr>
<td>Net Weight, without mounting kit</td>
<td>17.6 kg</td>
<td>38.8 lb</td>
</tr>
</tbody>
</table>

Remote Electrical Tilt (RET) Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>10–30 Vdc</td>
</tr>
<tr>
<td>Internal RET</td>
<td>High band (2)</td>
</tr>
<tr>
<td>Power Consumption, idle state, maximum</td>
<td>2 W</td>
</tr>
<tr>
<td>Power Consumption, normal conditions, maximum</td>
<td>13 W</td>
</tr>
<tr>
<td>Protocol</td>
<td>3GPP/AISG 2.0 (Single RET)</td>
</tr>
<tr>
<td>RET Interface</td>
<td>8-pin DIN Female</td>
</tr>
<tr>
<td>RET Interface, quantity</td>
<td>2 female</td>
</tr>
</tbody>
</table>

Packed Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1544.0 mm</td>
<td>60.8 in</td>
</tr>
<tr>
<td>Width</td>
<td>447.0 mm</td>
<td>17.6 in</td>
</tr>
<tr>
<td>Depth</td>
<td>354.0 mm</td>
<td>13.9 in</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>30.0 kg</td>
<td>66.1 lb</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

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

Mechanical Specifications

Color | Silver
Material Type | Galvanized steel

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

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