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

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Gain, dBi</td>
<td>15.9</td>
<td>16.0</td>
<td>17.6</td>
<td>17.5</td>
<td>17.9</td>
<td>17.6</td>
<td>18.2</td>
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<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>62</td>
<td>61</td>
<td>70</td>
<td>68</td>
<td>67</td>
<td>58</td>
<td>60</td>
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<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>10.5</td>
<td>9.6</td>
<td>5.6</td>
<td>5.3</td>
<td>5.1</td>
<td>4.3</td>
<td>4.1</td>
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<tr>
<td>Beam Tilt, degrees</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>
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<tr>
<td>USLS (First Lobe), dB</td>
<td>15</td>
<td>15</td>
<td>14</td>
<td>14</td>
<td>15</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>29</td>
<td>30</td>
<td>29</td>
<td>30</td>
<td>24</td>
<td>26</td>
<td>29</td>
</tr>
<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
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<tr>
<td>Isolation, Inter-band, dB</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
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<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>
<td>1.5</td>
<td>14.0</td>
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<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>
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<tr>
<td>Input Power per Port, maximum, watts</td>
<td>350</td>
<td>350</td>
<td>350</td>
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<td>300</td>
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<tr>
<td>Polarization</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
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<tr>
<td>Impedance</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
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</table>

### Electrical Specifications, BASTA*

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</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>15.5</td>
<td>15.7</td>
<td>17.4</td>
<td>17.3</td>
<td>17.5</td>
<td>17.4</td>
<td>18.0</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.4</td>
<td>±0.4</td>
<td>±0.2</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.6</td>
<td>±0.7</td>
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<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±2.7</td>
<td>±1.8</td>
<td>±3.2</td>
<td>±2.9</td>
<td>±5.5</td>
<td>±5.2</td>
<td>±5.8</td>
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<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.4</td>
<td>±0.7</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.2</td>
</tr>
<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>17</td>
<td>16</td>
<td>16</td>
<td>17</td>
<td>17</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180°, dB</td>
<td>25</td>
<td>27</td>
<td>26</td>
<td>25</td>
<td>23</td>
<td>21</td>
<td>24</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>24</td>
<td>24</td>
<td>21</td>
<td>21</td>
<td>20</td>
<td>17</td>
<td>17</td>
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<tr>
<td>CPR at Sector, dB</td>
<td>11</td>
<td>11</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>6</td>
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</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

Page 1 of 3

January 22, 2020
General Specifications

Operating Frequency Band

<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>Y1</td>
<td>1710-2690</td>
<td>3-4</td>
</tr>
<tr>
<td>Y2</td>
<td>1710-2690</td>
<td>5-6</td>
</tr>
</tbody>
</table>

Antenna Type

- Sector
- 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
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 | 69.2 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

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 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

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