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

- Three DualPol® antennas under one radome
- Utilizes AccuRET® actuator(s) on the back of the antenna

#### Electrical Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain, dBi</strong></td>
<td>16.7</td>
<td>16.9</td>
<td>17.9</td>
<td>18.3</td>
<td>18.5</td>
<td>18.0</td>
<td>18.8</td>
</tr>
<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>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>8.2</td>
<td>7.6</td>
<td>5.6</td>
<td>5.3</td>
<td>5.1</td>
<td>4.3</td>
<td>4.1</td>
</tr>
<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>
<td>2–12</td>
</tr>
<tr>
<td>USLS (First Lobe), dB</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>16</td>
<td>16</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>30</td>
<td>30</td>
<td>29</td>
<td>29</td>
<td>25</td>
<td>29</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>
</tr>
<tr>
<td>Isolation, Inter-band, dB</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>**VSWR</td>
<td>Return Loss, dB**</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</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>
<td>-150</td>
<td>-150</td>
</tr>
<tr>
<td>Input Power per Port, maximum, watts</td>
<td>350</td>
<td>350</td>
<td>350</td>
<td>350</td>
<td>300</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>Polarization</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>Impedance</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></th>
<th></th>
<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>16.4</td>
<td>16.5</td>
<td>17.3</td>
<td>17.5</td>
<td>17.7</td>
<td>17.7</td>
<td>17.9</td>
</tr>
<tr>
<td><strong>Gain by all Beam Tilts Tolerance, dB</strong></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>±0.4</td>
</tr>
<tr>
<td><strong>Gain by Beam Tilt, average, dBi</strong></td>
<td>0 °</td>
<td>16.4</td>
<td>0 °</td>
<td>16.5</td>
<td>2 °</td>
<td>17.2</td>
<td>2 °</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal Tolerance, degrees</strong></td>
<td>±0.5</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.2</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical Tolerance, degrees</strong></td>
<td>±0.5</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.2</td>
</tr>
<tr>
<td><strong>USLS, beampeak to 20° above beampeak, dB</strong></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><strong>Front-to-Back Total Power at 180° ± 30°, dB</strong></td>
<td>26</td>
<td>27</td>
<td>26</td>
<td>25</td>
<td>23</td>
<td>21</td>
<td>24</td>
</tr>
<tr>
<td><strong>CPR at Boresight, dB</strong></td>
<td>28</td>
<td>27</td>
<td>21</td>
<td>21</td>
<td>20</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td><strong>CPR at Sector, dB</strong></td>
<td>13</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>6</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
General Specifications

Operating Frequency Band
- 1710 – 2690 MHz
- 790 – 960 MHz

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
- Copper
- Low loss circuit board

Radome Material
- Fiberglass, UV resistant

Reflector Material
- Aluminum

RF Connector Location
- Bottom

Wind Loading, frontal
- 396.0 N @ 150 km/h
- 89.0 lbf @ 150 km/h

Wind Loading, lateral
- 333.0 N @ 150 km/h
- 74.9 lbf @ 150 km/h

Wind Loading, maximum
- 762.0 N @ 150 km/h
- 171.3 lbf @ 150 km/h

Wind Speed, maximum
- 241 km/h
- 150 mph
CVV65CSX-M  |  CVV65CSX-3X2

Dimensions

Length 2453.0 mm  |  96.6 in
Width 301.0 mm  |  11.9 in
Depth 181.0 mm  |  7.1 in
Net Weight, without mounting kit 22.2 kg  |  48.9 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator CVV65CSX-3X2

Packed Dimensions

Length 2584.0 mm  |  101.7 in
Width 441.0 mm  |  17.4 in
Depth 337.0 mm  |  13.3 in
Shipping Weight 39.1 kg  |  86.2 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