**CVV65DSX-M**

6-port sector antenna, 2x 790–960 and 4x 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>
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</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>16.8</td>
<td>17.0</td>
<td>17.6</td>
<td>18.0</td>
<td>18.2</td>
<td>18.0</td>
<td>18.7</td>
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<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>62</td>
<td>60</td>
<td>70</td>
<td>69</td>
<td>68</td>
<td>57</td>
<td>60</td>
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<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>7.6</td>
<td>7.1</td>
<td>5.5</td>
<td>5.3</td>
<td>5.0</td>
<td>4.4</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>
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</tr>
<tr>
<td>USLS (First Lobe), dB</td>
<td>17</td>
<td>15</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>30</td>
<td>30</td>
<td>28</td>
<td>26</td>
<td>24</td>
<td>25</td>
<td>28</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>
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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>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
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<tr>
<td>Return Loss, dB</td>
<td>14.0</td>
<td>14.0</td>
<td>14.0</td>
<td>14.0</td>
<td>14.0</td>
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<td>14.0</td>
</tr>
</tbody>
</table>

- PIM, 3rd Order, 2 x 20 W, dBc
- Input Power per Port at 50°C, maximum, watts
- Polarization
- Impedance 50 ohm

**Electrical Specifications, BASTA**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>16.5</td>
<td>16.7</td>
<td>17.3</td>
<td>17.6</td>
<td>17.8</td>
<td>17.9</td>
<td>18.2</td>
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<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.3</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.8</td>
<td>±0.5</td>
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<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>0 °</td>
<td>16.3</td>
<td>0 °</td>
<td>16.5</td>
<td>2 °</td>
<td>17.2</td>
<td>2 °</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±1.8</td>
<td>±1.2</td>
<td>±3.4</td>
<td>±2.9</td>
<td>±5.7</td>
<td>±5.6</td>
<td>±6.5</td>
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<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.3</td>
<td>±0.2</td>
<td>±0.2</td>
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<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>18</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180°, dB</td>
<td>27</td>
<td>27</td>
<td>25</td>
<td>24</td>
<td>22</td>
<td>21</td>
<td>22</td>
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<tr>
<td>CPR at Boresight, dB</td>
<td>29</td>
<td>28</td>
<td>24</td>
<td>22</td>
<td>20</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>CPR at Sector, dB</td>
<td>13</td>
<td>12</td>
<td>12</td>
<td>9</td>
<td>10</td>
<td>4</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.

**Array Layout**

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**January 22, 2020**
General Specifications

Operating Frequency Band | 1710 – 2690 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
Total Input Power, maximum | 600 W @ 50 °C

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 | 444.0 N @ 150 km/h | 100.0 lbf @ 150 km/h
Wind Loading, lateral | 377.0 N @ 150 km/h | 84.8 lbf @ 150 km/h
Wind Loading, maximum | 856.0 N @ 150 km/h | 192.4 lbf @ 150 km/h
Wind Speed, maximum | 241 km/h | 150 mph
Dimensions

Length
2702.0 mm | 106.4 in

Width
301.0 mm | 11.9 in

Depth
181.0 mm | 7.1 in

Net Weight, without mounting kit
23.3 kg | 51.4 lb

Packed Dimensions

Length
2833.0 mm | 111.5 in

Width
441.0 mm | 17.4 in

Depth
337.0 mm | 13.3 in

Shipping Weight
41.0 kg | 90.4 lb

Regulatory Compliance/Certifications

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

Classification
Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
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
Forward Offset Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members

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: 3.5 kg | 7.7 lb

Regulatory Compliance/Certifications

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

Classification
Compliant by Exemption
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