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
- High band antennas are arranged side-by-side for optimum MIMO 4x4/4x2 performance

This product will be discontinued on: March 27, 2020

Replaced By

| RVV-65A-R3 | 6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET |

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### Electrical Specifications

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>14.4</td>
<td>14.5</td>
<td>17.2</td>
<td>17.4</td>
<td>18.0</td>
<td>18.2</td>
<td>18.4</td>
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<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>70</td>
<td>69</td>
<td>70</td>
<td>80</td>
<td>62</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>15.5</td>
<td>14.5</td>
<td>7.2</td>
<td>6.7</td>
<td>6.3</td>
<td>5.5</td>
<td>5.2</td>
</tr>
<tr>
<td>Beam Tilt, degrees</td>
<td>0–15</td>
<td>0–15</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>16</td>
<td>15</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>28</td>
<td>29</td>
<td>28</td>
<td>30</td>
<td>30</td>
<td>30</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>
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<tr>
<td>PIM, 3rd Order, 2 x 20 W, dB</td>
<td>-150</td>
<td>-150</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>
<td>350</td>
<td>350</td>
<td>300</td>
<td>300</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>
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</table>

### Electrical Specifications, BASTA*

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>14.0</td>
<td>14.3</td>
<td>16.9</td>
<td>17.3</td>
<td>17.5</td>
<td>17.7</td>
<td>17.9</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.4</td>
<td>±0.3</td>
<td>±0.7</td>
<td>±0.4</td>
<td>±0.6</td>
<td>±0.7</td>
<td>±0.8</td>
</tr>
<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>0°</td>
<td>14.2</td>
<td>0°</td>
<td>14.4</td>
<td>2°</td>
<td>16.9</td>
<td>2°</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±1.2</td>
<td>±1.8</td>
<td>±5.3</td>
<td>±6.5</td>
<td>±5.8</td>
<td>±6.1</td>
<td>±4.3</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±1.1</td>
<td>±0.8</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.3</td>
</tr>
<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>16</td>
<td>15</td>
<td>15</td>
<td>16</td>
<td>15</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>22</td>
<td>22</td>
<td>25</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>23</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>25</td>
<td>24</td>
<td>16</td>
<td>18</td>
<td>17</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td>CPR at Sector, dB</td>
<td>12</td>
<td>11</td>
<td>11</td>
<td>13</td>
<td>11</td>
<td>7</td>
<td>10</td>
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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>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>

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

### 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

### 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 | Low loss circuit board

**Radome Material**

Fiberglass, UV resistant

**Reflector Material**

Aluminum

**RF Connector Location**

Bottom

**Wind Loading, frontal**

205.0 N @ 150 km/h | 46.1 lbf @ 150 km/h

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Wind Loading, lateral

169.0 N @ 150 km/h | 38.0 lbf @ 150 km/h

Wind Loading, maximum

396.0 N @ 150 km/h | 89.0 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1412.0 mm</td>
<td>301.0 mm</td>
<td>180.5 mm</td>
</tr>
<tr>
<td></td>
<td>55.6 in</td>
<td>11.9 in</td>
<td>7.1 in</td>
</tr>
</tbody>
</table>

Net Weight, without mounting kit

17.6 kg | 38.8 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator CVV65ASX-3X2

Packed Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1672.0 mm</td>
<td>429.0 mm</td>
<td>329.0 mm</td>
</tr>
<tr>
<td></td>
<td>65.8 in</td>
<td>16.9 in</td>
<td>13.0 in</td>
</tr>
</tbody>
</table>

Shipping Weight

30.9 kg | 68.1 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
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives