**CCVVPX308.11R2**

8-port sector antenna, 4x 790–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET with manual override. Bands cascaded SRET designed for Site-Sharing purpose (two Operators / Primaries operating their assigned RET’s independently)

- The RET interface comprises two pairs of AISG input/output ports, each pair controlling “one side” of the antenna independently: one pair for the left-hand bands 1 and 3 (R1, Y1); one pair for the right-hand bands 2 and 4 (R2, Y2)
- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- All Internal RET actuators on each antenna side are connected in “Cascaded SRET” configuration

---

**This product will be discontinued on: March 27, 2020**

**Replaced By**

RRZ-65B-R4 8-port sector antenna, 4x 694–960 and 4x 1427–2690 MHz, 65° HPBW, 4x RET

### 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>Gain, dBi</td>
<td>14.9</td>
<td>15.6</td>
<td>16.6</td>
<td>16.8</td>
<td>17.4</td>
<td>18.1</td>
<td>18.2</td>
</tr>
<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>74</td>
<td>63</td>
<td>63</td>
<td>66</td>
<td>68</td>
<td>62</td>
<td>63</td>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>11.3</td>
<td>10.2</td>
<td>7.6</td>
<td>7.0</td>
<td>6.6</td>
<td>5.6</td>
<td>5.2</td>
</tr>
<tr>
<td>Beam Tilt, degrees</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
</tr>
<tr>
<td>USLS (First Lobe), dB</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>35</td>
<td>35</td>
<td>34</td>
<td>38</td>
<td>40</td>
<td>39</td>
<td>40</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>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<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>
</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>300</td>
<td>300</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</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>Gain by all Beam Tilts, average, dBi</td>
<td>14.7</td>
<td>15.4</td>
<td>16.4</td>
<td>16.5</td>
<td>16.9</td>
<td>17.8</td>
<td>17.9</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.4</td>
<td>±0.6</td>
<td>±0.7</td>
<td>±0.5</td>
<td>±0.5</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>0 °</td>
<td>14.7</td>
<td>0 °</td>
<td>15.5</td>
<td>0 °</td>
<td>16.4</td>
<td>0 °</td>
</tr>
<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>5 °</td>
<td>14.7</td>
<td>5 °</td>
<td>15.5</td>
<td>5 °</td>
<td>16.4</td>
<td>5 °</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>10 °</td>
<td>14.6</td>
<td>10 °</td>
<td>15.4</td>
<td>10 °</td>
<td>16.4</td>
<td>10 °</td>
</tr>
</tbody>
</table>

---

*January 22, 2020

©2020 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: December 20, 2019
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>R1</td>
<td>790-960</td>
<td>1-2</td>
<td>1</td>
<td>ARxxxxxxxxxxxxxxxxx1</td>
</tr>
<tr>
<td>R2</td>
<td>790-960</td>
<td>3-4</td>
<td>2</td>
<td>ARxxxxxxxxxxxxxxxxx2</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2690</td>
<td>5-6</td>
<td>3</td>
<td>ARxxxxxxxxxxxxxxxxx3</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2690</td>
<td>7-8</td>
<td>4</td>
<td>ARxxxxxxxxxxxxxxxxx4</td>
</tr>
</tbody>
</table>

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

General Specifications

**Operating Frequency Band**
- 1695 – 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**
- 8

**RF Connector Quantity, low band**
- 4

**RF Connector Quantity, high band**
- 4

**RF Connector Interface**
- 7-16 DIN Female

**Color**
- 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: 803.0 N @ 150 km/h | 180.5 lbf @ 150 km/h
Wind Loading, lateral: 275.0 N @ 150 km/h | 61.8 lbf @ 150 km/h
Wind Loading, maximum: 1,040.0 N @ 150 km/h | 233.8 lbf @ 150 km/h
Wind Speed, maximum: 200 km/h | 124 mph

Dimensions
Length: 2100.0 mm | 82.7 in
Width: 498.0 mm | 19.6 in
Depth: 197.0 mm | 7.8 in
Net Weight, without mounting kit: 39.0 kg | 86.0 lb

Remote Electrical Tilt (RET) Information
Input Voltage: 10–30 Vdc
Internal RET: High band (2) | Low band (2)
Power Consumption, idle state, maximum: 2 W
Power Consumption, normal conditions, maximum: 13 W
Protocol: 3GPP/AISG 2.0 (Single RET)
RET Interface: 8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity: 2 female | 2 male

Packed Dimensions
Length: 2286.0 mm | 90.0 in
Width: 565.0 mm | 22.2 in
Depth: 312.0 mm | 12.3 in
Shipping Weight: 60.0 kg | 132.3 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

T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note: Severe environmental conditions may degrade optimum performance.
Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

General Specifications
- **Application**: Outdoor
- **Includes**: Brackets | Hardware
- **Package Quantity**: 1

Mechanical Specifications
- **Color**: Silver
- **Material Type**: Galvanized steel
- **Mechanical Tilt**: 0°-8°

Dimensions
- **Antenna-to-Pipe Distance**: 85.0 mm | 3.3 in
- **Bracket-to-Bracket Distance**: 1400.0 mm | 55.1 in
- **Compatible Diameter, maximum**: 115.0 mm | 4.5 in
- **Compatible Diameter, minimum**: 60.0 mm | 2.4 in
- **Compatible Length, maximum**: 2850.0 mm | 112.2 in
- **Compatible Length, minimum**: 1500.0 mm | 59.1 in
- **Net Weight**: 6.0 kg | 13.2 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