8-port sector antenna, 4x 790–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET with manual override. Bands cascaded SRET.

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- All Internal RET actuators are connected in “Cascaded SRET” configuration
- The RET interface comprises one pair of AISG input/output ports
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

### Electrical Specifications

#### Frequency Band, MHz

<table>
<thead>
<tr>
<th></th>
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</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>
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<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>
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<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>
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<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>
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<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>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>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>
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<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>
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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>
<td>50 ohm</td>
<td>50 ohm</td>
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</tbody>
</table>

### Electrical Specifications, BASTA*

#### Frequency Band, MHz

<table>
<thead>
<tr>
<th></th>
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<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>Gain by Beam Tilt, average, dBi</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>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±4.2</td>
<td>±4.7</td>
<td>±3.3</td>
<td>±7.3</td>
<td>±4.4</td>
<td>±3.4</td>
<td>±2.6</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.5</td>
<td>±0.4</td>
<td>±0.5</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.2</td>
<td>±0.2</td>
</tr>
<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>24</td>
<td>25</td>
<td>27</td>
<td>31</td>
<td>30</td>
<td>31</td>
<td>32</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>20</td>
<td>18</td>
<td>20</td>
<td>20</td>
<td>18</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>CPR at Sector, dB</td>
<td>11</td>
<td>9</td>
<td>9</td>
<td>11</td>
<td>12</td>
<td>11</td>
<td>11</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

<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>ARxxxxxxxxxxxxx1</td>
</tr>
<tr>
<td>R2</td>
<td>790-960</td>
<td>3-4</td>
<td>2</td>
<td>ARxxxxxxxxxxxxx2</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2690</td>
<td>5-6</td>
<td>3</td>
<td>ARxxxxxxxxxxxxx3</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2690</td>
<td>7-8</td>
<td>4</td>
<td>ARxxxxxxxxxxxxx4</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
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 8
RF Connector Quantity, low band 4
RF Connector Quantity, high band 4
RF Connector Interface 4.3-10 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
1 female | 1 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