### Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>LB 790–890 MHz</th>
<th>LB 890–960 MHz</th>
<th>HB 1695–1920 MHz</th>
<th>HB 1695–2180 MHz</th>
<th>HB 2300–2690 MHz</th>
<th>HB-Dual-Beam2 1695–1920 MHz</th>
<th>HB-Dual-Beam2 1920–2180 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>15.8</td>
<td>16.1</td>
<td>16.2</td>
<td>16.9</td>
<td>17.3</td>
<td>16.5</td>
<td>18.1</td>
</tr>
<tr>
<td>Beam Centers, Horizontal, degrees</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>69</td>
<td>68</td>
<td>66</td>
<td>67</td>
<td>65</td>
<td>36</td>
<td>31</td>
</tr>
<tr>
<td>Beam tilt, Vertical, degrees</td>
<td>11.1</td>
<td>10.2</td>
<td>10.1</td>
<td>9.0</td>
<td>7.3</td>
<td>10.3</td>
<td>9.1</td>
</tr>
<tr>
<td>Isolation, Beam to Beam, dB</td>
<td>10–10</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>Isolation, Inter, dB</td>
<td>28</td>
<td>28</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>25</td>
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<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</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>
<td>1.5</td>
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<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>
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</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>
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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>
</tr>
</tbody>
</table>

### Electrical Specifications, BASTA*

<table>
<thead>
<tr>
<th>Frequency Band, MHz</th>
<th>790–890 MHz</th>
<th>890–960 MHz</th>
<th>1695–1920 MHz</th>
<th>1920–2180 MHz</th>
<th>2300–2690 MHz</th>
<th>1695–1920 MHz</th>
<th>1920–2180 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>15.7</td>
<td>15.9</td>
<td>15.9</td>
<td>16.5</td>
<td>16.9</td>
<td>15.8</td>
<td>17.5</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.2</td>
<td>±0.1</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.7</td>
<td>±1.1</td>
<td>±0.9</td>
</tr>
<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>0°</td>
<td>15.7</td>
<td>0°</td>
<td>16.0</td>
<td>0°</td>
<td>16.0</td>
<td>0°</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±0.7</td>
<td>±0.5</td>
<td>±2.8</td>
<td>±4.3</td>
<td>±7.6</td>
<td>±3.4</td>
<td>±2.1</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.5</td>
<td>±0.4</td>
<td>±0.7</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.7</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>18</td>
<td>18</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>26</td>
<td>26</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>24</td>
<td>28</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>16</td>
<td>16</td>
<td>17</td>
<td>20</td>
<td>20</td>
<td>13</td>
<td>15</td>
</tr>
<tr>
<td>CPR at Sector, dB</td>
<td>12</td>
<td>14</td>
<td>12</td>
<td>13</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*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

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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>
<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>B1</td>
<td>1695-2180</td>
<td>3-4</td>
<td>2</td>
<td>ARxxxxxxxxxxxxx2</td>
</tr>
<tr>
<td>B2</td>
<td>1695-2180</td>
<td>5-6</td>
<td>3</td>
<td>ARxxxxxxxxxxxxx3</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2690</td>
<td>7-8</td>
<td>4</td>
<td>ARxxxxxxxxxxxxx4</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2690</td>
<td>9-10</td>
<td>5</td>
<td>ARxxxxxxxxxxxxx5</td>
</tr>
</tbody>
</table>

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

General Specifications

Operating Frequency Band: 1695 – 2180 MHz | 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: 10
RF Connector Quantity, low band: 2
RF Connector Quantity, high band: 8
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: Brass | Low loss circuit board
Radome Material: Fiberglass, UV resistant
Reflector Material: Aluminum
RF Connector Location: Bottom
Wind Loading, frontal: 348.0 N @ 150 km/h | 78.2 lb @ 150 km/h
Wind Loading, lateral  
294.0 N @ 150 km/h | 66.1 lbf @ 150 km/h

Wind Loading, maximum  
737.0 N @ 150 km/h | 165.7 lbf @ 150 km/h

Wind Speed, maximum  
241 km/h | 150 mph

Dimensions

Length  
2065.0 mm | 81.3 in

Width  
350.0 mm | 13.8 in

Depth  
208.0 mm | 8.2 in

Net Weight, without mounting kit  
35.5 kg | 78.3 lb

Remote Electrical Tilt (RET) Information

Input Voltage  
10–30 Vdc

Internal RET  
High band (4) | Low band (1)

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  
2250.0 mm | 88.6 in

Width  
436.0 mm | 17.2 in

Depth  
320.0 mm | 12.6 in

Shipping Weight  
53.0 kg | 116.8 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

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.
Performance Note

Severe environmental conditions may degrade optimum performance