10-port multibeam antenna, 10x 1710–2180 MHz, 5x 10-14° HPBW, fixed electrical tilt

Electrical Specifications

<table>
<thead>
<tr>
<th>Frequency Band, MHz</th>
<th>1710–1920</th>
<th>1920–2180</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>21.7</td>
<td>22.3</td>
</tr>
<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>11.9</td>
<td>10.9</td>
</tr>
<tr>
<td>Beam Tilt, degrees</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>USLS (First Lobe), dB</td>
<td>14</td>
<td>16</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>32</td>
<td>34</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Isolation, Same Beam, dB</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>VSWR</td>
<td>Return Loss, dB</td>
<td>1.43</td>
</tr>
<tr>
<td>PIM, 3rd Order, 2 x 20 W, dBC</td>
<td>-150</td>
<td>-150</td>
</tr>
<tr>
<td>Input Power per Port, maximum, watts</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Polarization</td>
<td>±45°</td>
<td>±45°</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
<td>50 ohm</td>
</tr>
</tbody>
</table>

Electrical Specifications, BASTA*

<table>
<thead>
<tr>
<th>Frequency Band, MHz</th>
<th>1710–1920</th>
<th>1920–2180</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>20.7</td>
<td>21.3</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±2</td>
<td>±1.7</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±2.1</td>
<td>±1.7</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±0.7</td>
<td>±0.7</td>
</tr>
<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>30</td>
<td>32</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>9</td>
<td>10</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.

General Specifications

<table>
<thead>
<tr>
<th>Operating Frequency Band</th>
<th>1710 – 2180 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Type</td>
<td>Multibeam</td>
</tr>
<tr>
<td>Band</td>
<td>Single band</td>
</tr>
<tr>
<td>Performance Note</td>
<td>Outdoor usage</td>
</tr>
</tbody>
</table>
### Mechanical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Connector Quantity, total</td>
<td>10</td>
</tr>
<tr>
<td>RF Connector Quantity, high band</td>
<td>10</td>
</tr>
<tr>
<td>RF Connector Interface</td>
<td>7-16 DIN Female</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Grounding Type</td>
<td>RF connector inner conductor and body grounded to reflector and mounting bracket</td>
</tr>
<tr>
<td>Radiator Material</td>
<td>Brass</td>
</tr>
<tr>
<td>Radome Material</td>
<td>ASA, UV stabilized</td>
</tr>
<tr>
<td>Reflector Material</td>
<td>Aluminum</td>
</tr>
<tr>
<td>RF Connector Location</td>
<td>Bottom</td>
</tr>
<tr>
<td>Wind Speed, maximum</td>
<td>250 km/h</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>889.0 mm</td>
</tr>
<tr>
<td>Width</td>
<td>864.0 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>202.0 mm</td>
</tr>
<tr>
<td>Net Weight, without mounting kit</td>
<td>30.0 kg</td>
</tr>
</tbody>
</table>

### Packed Dimensions

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1038.0 mm</td>
</tr>
<tr>
<td>Width</td>
<td>977.0 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>349.0 mm</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>47.0 kg</td>
</tr>
</tbody>
</table>

### Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS 2011/65/EU</td>
<td>Compliant by Exemption</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>China RoHS SJ/T 11364-2014</td>
<td>Below Maximum Concentration Value (MCV)</td>
</tr>
<tr>
<td>CE</td>
<td>Compliant with the relevant CE product directives</td>
</tr>
</tbody>
</table>

### Included Products

T-045-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