2-port small cell antenna, 2x (698-896 and 1710–2180 MHz), 65° HPBW, fixed electrical tilt, with internal diplexer and active GPS L1 band antenna.

Electrical Specifications

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>7.7</td>
<td>8.2</td>
<td>11.6</td>
<td>11.6</td>
<td>11.5</td>
</tr>
<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>75</td>
<td>66</td>
<td>53</td>
<td>55</td>
<td>55</td>
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<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>73.7</td>
<td>66.9</td>
<td>32.5</td>
<td>31.0</td>
<td>29.0</td>
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<tr>
<td>Beam Tilt, degrees</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>20</td>
<td>20</td>
<td>34</td>
<td>36</td>
<td>30</td>
</tr>
<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
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<tr>
<td>VSWR</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</td>
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<tr>
<td>PIM, 3rd Order, 2 x 20 W, dBc</td>
<td>-153</td>
<td>-153</td>
<td>-153</td>
<td>-153</td>
<td>-153</td>
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<tr>
<td>Input Power per Port at 50°C, maximum, watts</td>
<td>75</td>
<td>75</td>
<td>75</td>
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<tr>
<td>Polarization</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>
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</table>

Electrical Specifications, BASTA*

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<tr>
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</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>7.3</td>
<td>7.9</td>
<td>11.5</td>
<td>11.5</td>
<td>11.3</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.4</td>
<td>±0.7</td>
<td>±0.3</td>
<td>±0.3</td>
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<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±5.9</td>
<td>±9.3</td>
<td>±1.9</td>
<td>±1.8</td>
<td>±2.5</td>
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<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±6.6</td>
<td>±8</td>
<td>±1</td>
<td>±1.3</td>
<td>±2.8</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>15</td>
<td>14</td>
<td>27</td>
<td>27</td>
<td>23</td>
</tr>
</tbody>
</table>

General Specifications

Operating Frequency Band | 1710 – 2180 MHz | 698 – 896 MHz
Antenna Type | Small Cell
Band | Multiband
Internal GPS frequency band | 1575.42 MHz
Internal GPS VSWR | 2
Performance Note | Outdoor usage | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Total Input Power, maximum | 150 W @ 50 °C

* 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.
Mechanical Specifications

RF Connector Quantity, total 2
RF Connector Interface 7-16 DIN Female
Color Light gray
GPS Connector Interface 4.1-9.5 DIN Female
GPS Connector Quantity 1
Grounding Type RF connector inner conductor and body grounded to reflector and mounting bracket
Radiation Material Aluminum | Low loss circuit board
Radome Material Fiberglass, UV resistant
Reflector Material Aluminum
RF Connector Location Bottom
RF Connector Quantity, diplexed low and high bands 2

Wind Loading, frontal 52.0 N @ 150 km/h | 118.2 lbf @ 150 km/h
Wind Loading, lateral 39.0 N @ 150 km/h | 8.76 lbf @ 150 km/h
Wind Loading, maximum 101.0 N @ 150 km/h | 22.7 lbf @ 150 km/h
Wind Speed, maximum 241 km/h | 150 mph

Dimensions

Length 389.0 mm | 15.3 in
Width 301.0 mm | 11.9 in
Depth 181.0 mm | 7.1 in
Net Weight, without mounting kit 4.7 kg | 10.4 lb

Packed Dimensions

Length 576.0 mm | 22.7 in
Width 409.0 mm | 16.1 in
Depth 299.0 mm | 11.8 in
Shipping Weight 8.7 kg | 19.2 lb

Regulatory Compliance/Certifications

Agency RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014

Classification Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
NH65T-DG-F0

Included Products

DB380-SINGLE — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes only one clamp set and uses double nuts.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance