2x2 Dual-Polarity MIMO Omni Antenna

Models: AMO-2G10, AMO-2G13, AMO-3G12, AMO-5G10, AMO-5G13

High Performance, Long Range

Seamlessly Integrates with Rocket® Radio

360° Coverage
Overview

The airMAX® Omni Antenna is a carrier-class 2x2 dual-polarity MIMO omnidirectional antenna designed to seamlessly integrate with Rocket radios (Rocket sold separately).

On the right is one example of how the airMAX Omni Antenna can be deployed in a Point-to-MultiPoint (PtMP) network.

Flexibility

To support your specific application, the airMAX Omni Antenna is available in multiple frequency models:

- 2.4 GHz
- 3 GHz
- 5 GHz

Breakthrough Design

The airMAX Omni Antenna is the first of its kind to feature a patented, dual-polarity omni design.

Omnidirectional Coverage

The airMAX Omni Antenna provides powerful 360° coverage, 2x2 MIMO performance in Line-of-Sight (LoS) or Non-Line-of-Sight (NLoS) applications.

Durable Construction

Each airMAX Omni Antenna features a robust mechanical design for outdoor application use.

Plug and Play Integration

Every airMAX Omni Antenna has a built-in Rocket mount, so installation requires no special tools. Snap the Rocket securely into place and mount the antenna; you then have the optimal combination of Rocket radio and airMAX Omni Antenna for your application.

Pair the Rocket radio with the airMAX Omni Antenna to create a powerful omnidirectional basestation. This combination gives network architects unparalleled flexibility and convenience.
## Model Comparison

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>AMO-2G10</th>
<th>AMO-2G13</th>
<th>AMO-3G12</th>
<th>AMO-5G10</th>
<th>AMO-5G13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain</td>
<td>10 dBi</td>
<td>13 dBi</td>
<td>12 dBi</td>
<td>10 dBi</td>
<td>13 dBi</td>
</tr>
<tr>
<td>Frequency Band</td>
<td>2.4 GHz</td>
<td>2.4 GHz</td>
<td>3 GHz</td>
<td>5 GHz</td>
<td>5 GHz</td>
</tr>
</tbody>
</table>
Specifications

<table>
<thead>
<tr>
<th>Antenna Characteristics</th>
<th>AMO-2G10</th>
<th>AMO-2G13</th>
<th>AMO-3G12</th>
<th>AMO-SG10</th>
<th>AMO-SG13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions*</td>
<td>1012 x 122 x 105 mm (39.84 x 4.8 x 4.13&quot;)</td>
<td>1390 x 122 x 105 mm (54.72 x 4.8 x 4.13&quot;)</td>
<td>1030 x 122 x 84 mm (40.55 x 4.8 x 3.31&quot;)</td>
<td>582 x 90 x 65 mm (22.91 x 3.54 x 2.56&quot;)</td>
<td>799 x 90 x 65 mm (31.46 x 3.54 x 2.56&quot;)</td>
</tr>
<tr>
<td>Weight*</td>
<td>2.1 kg (4.24 lb)</td>
<td>2.4 kg (5.29 lb)</td>
<td>2.05 kg (4.52 lb)</td>
<td>0.68 kg (1.50 lb)</td>
<td>0.82 kg (1.81 lb)</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>2.35 - 2.55 GHz</td>
<td>2.35 - 2.55 GHz</td>
<td>3.4 - 3.7 GHz</td>
<td>5.45 - 5.85 GHz</td>
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</tr>
<tr>
<td>Gain</td>
<td>10 dBi</td>
<td>13 dBi</td>
<td>12 dBi</td>
<td>10 dBi</td>
<td>13 dBi</td>
</tr>
<tr>
<td>Elevation Beamwidth</td>
<td>12°</td>
<td>7°</td>
<td>8°</td>
<td>12°</td>
<td>7°</td>
</tr>
<tr>
<td>Max VSWR</td>
<td>1.7:1</td>
<td>1.7:1</td>
<td>1.6:1</td>
<td>1.6:1</td>
<td>1.5:1</td>
</tr>
<tr>
<td>Downtilt</td>
<td>4°</td>
<td>2°</td>
<td>4°</td>
<td>4°</td>
<td>2°</td>
</tr>
<tr>
<td>Wind Survivability</td>
<td>200 km/h (125 mph)</td>
<td>200 km/h (125 mph)</td>
<td>200 km/h (125 mph)</td>
<td>200 km/h (125 mph)</td>
<td>200 km/h (125 mph)</td>
</tr>
<tr>
<td>Wind Loading</td>
<td>97.9 N @ 200 km/h (22 lbf @ 125 mph)</td>
<td>111.2 N @ 200 km/h (25 lbf @ 125 mph)</td>
<td>111.2 N @ 200 km/h (25 lbf @ 125 mph)</td>
<td>71.17 N @ 200 km/h (16 lbf @ 125 mph)</td>
<td>84.52 N @ 200 km/h (19 lbf @ 125 mph)</td>
</tr>
<tr>
<td>Polarization</td>
<td>Dual-Linear</td>
<td>Dual-Linear</td>
<td>Dual-Linear</td>
<td>Dual-Linear</td>
<td>Dual-Linear</td>
</tr>
<tr>
<td>Cross-pol Isolation</td>
<td>25 dB min.</td>
<td>25 dB min.</td>
<td>25 dB min.</td>
<td>25 dB min.</td>
<td>25 dB min.</td>
</tr>
<tr>
<td>ETSI Specification</td>
<td>EN 302 326 DN2</td>
<td>EN 302 326 DN2</td>
<td>EN 302 326 DN2</td>
<td>EN 302 326 DN2</td>
<td>EN 302 326 DN2</td>
</tr>
<tr>
<td>Mounting</td>
<td>Universal Pole Mount, RocketM Bracket, and Weatherproof RF Jumpers Included</td>
<td></td>
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</tr>
</tbody>
</table>

* Dimensions and weight exclude pole mount and Rocket (Rocket sold separately)
AMO-2G13 Antenna Information

Return Loss

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation

AMO-3G12 Antenna Information

Return Loss

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation
AMO-5G10 Antenna Information

Return Loss

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation

AMO-5G13 Antenna Information

Return Loss

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation

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