



RocketDish™

airMAX® 2x2 PtP Bridge Dish Antenna

Models: RD-2G24, RD-3G26, RD-5G30, RD-5G30-LW, RD-5G34

Powerful Performance for Long-Range Links

Robust Design and Construction for Outdoor Use

Seamless Integration with Rocket Radios



Overview

Pair a RocketDish™ antenna with a Rocket® basestation to create the endpoint of a high-performance, Point-to-Point (PtP) bridge or network backhaul (Rocket sold separately).

The RocketDish is available in the following frequency models:

- 2.4 GHz
- 3 GHz
- 5 GHz

Powerful Performance

The RocketDish antenna delivers 2x2, dual-polarity performance. On the right is one example of how the RocketDish with Rocket can be deployed in a backhaul link to deliver bandwidth from an ISP network out to a neighborhood tower. From there, an airMAX® Sector with Rocket delivers bandwidth to the ISP's customers.

Carrier-Class Construction

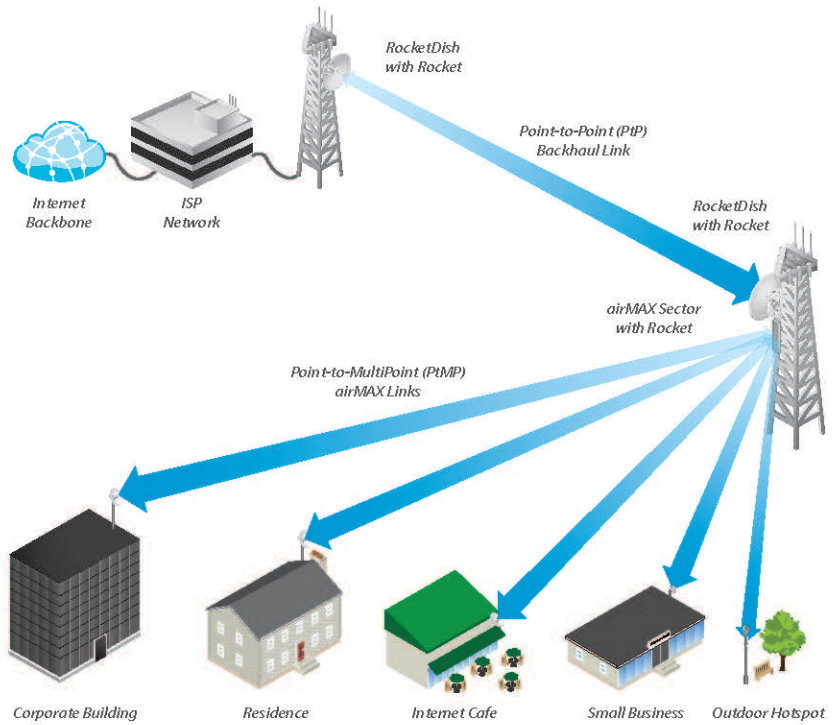
Incorporating a dish reflector design for excellent beam directivity, the RocketDish antennas feature robust mechanical design using industrial-strength hardware for outdoor application use.

Plug and Play Integration

RocketDish antennas and Rocket basestations have been designed to seamlessly work together. Every RocketDish 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 RocketDish and Rocket for your PtP application.

Application Example



Mounting a Rocket on the RD-5G30-LW

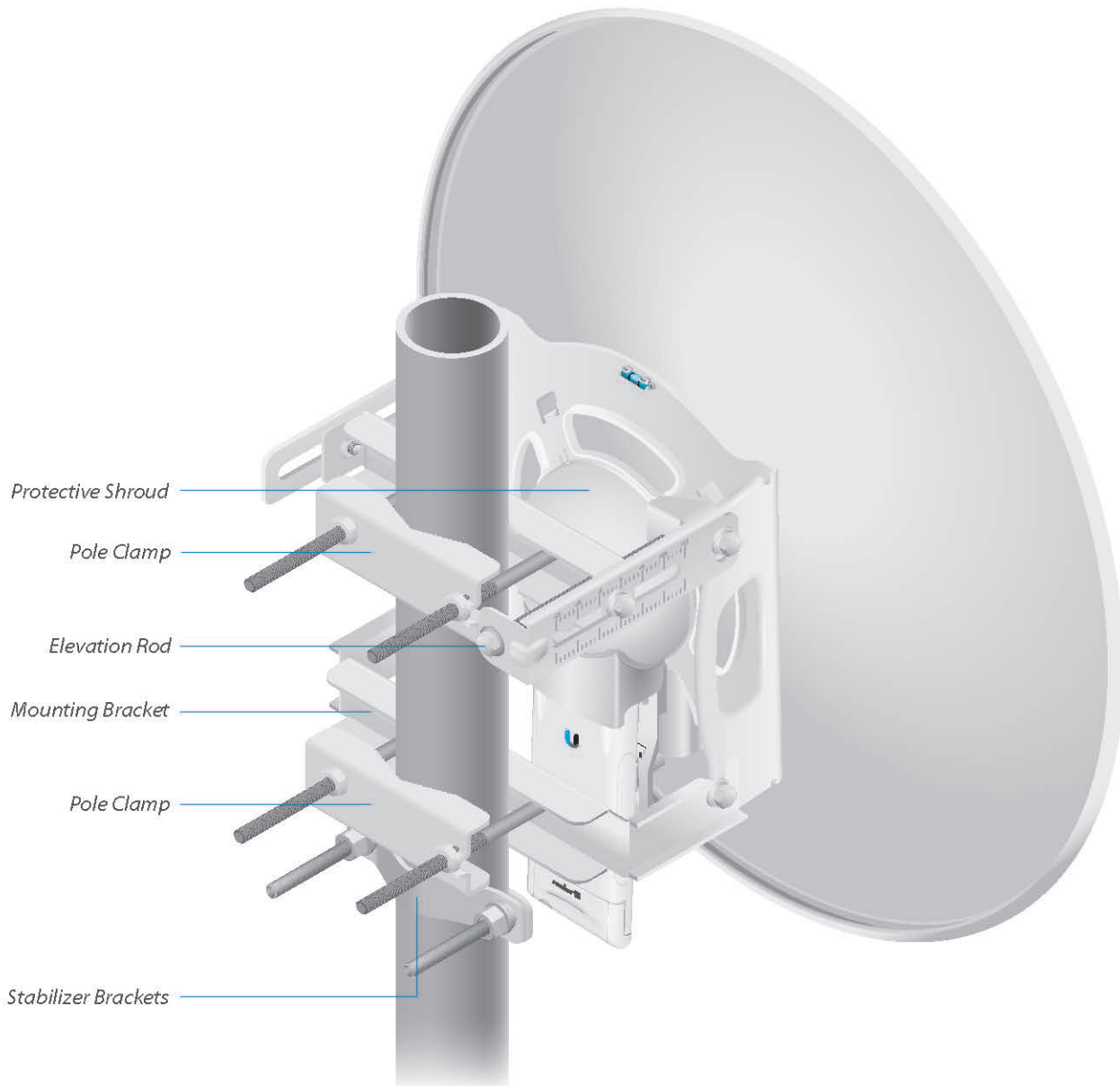
Hardware Overview

Innovative Mechanical Design

- **Secure pole-mounting** The hardware is designed to securely mount and maintain the position of the dish during harsh outdoor conditions.
- **Convenient installation** The bubble level allows for easy alignment.
- **Precision elevation adjustment of the RD-5G30-LW** Use this new feature to quickly fine-tune and adjust the elevation.

Weatherproof Design

- **Protective shroud** The shroud* protects the cables and connectors from nature's elements.
- **Mounting hardware of the RD-5G30-LW** Made of galvanized steel that is powder-coated for superior corrosion resistance.
- **Fasteners of the RD-5G30-LW** GEOMET-coated for improved corrosion resistance when compared with zinc-plated fasteners.



Back View of the Fully Assembled RD-5G30-LW

* All models except for the RD-2G24 include a shroud.

5 GHz Models



Model	Frequency	Gain ¹	Radome ²
RD-5G30	4.9 - 5.8 GHz	26 - 30 dBi	RAD-RD2

The 5 GHz frequency band is free to use, worldwide, offers plentiful spectrum, and works well for long-distance links. However, 5 GHz signals have more difficulty passing through obstacles than lower-frequency signals.

The 4.9 GHz frequency band typically requires a license and is reserved for public safety applications.



Model	Frequency	Gain	Radome ²
RD-5G30-LW	5.1 - 5.9 GHz	30 dBi	ISO-BEAM-620

The RD-5G30-LW features the same gain as the RD-5G30 and adds the following advantages:

- Lightweight yet robust components lessen the load.
- The extended depth of the dish reflector rejects noise interference in co-location deployments.
- The design of the mounting bracket allows for ease of installation on a pole or tower.



Model	Frequency	Gain ¹	Radome ²
RD-5G34	4.9 - 5.8 GHz	30 - 34 dBi	RAD-RD3

The RD-5G34 offers up to 34 dBi of gain in a 1050-mm diameter size.

¹ Check your local/regional regulations for the maximum antenna gain allowed for your application.

² A radome is available as an optional accessory.

Specifications

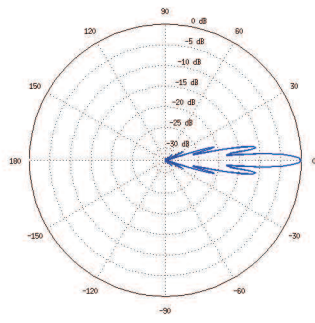
Antenna Characteristics					
Model	RD-2G24	RD-3G26	RD-5G30	RD-5G30-LW	RD-5G34
Dimensions*	650 x 650 x 295 mm (25.6 x 25.6 x 11.61")	650 x 650 x 300 mm (25.6 x 25.6 x 11.81")	650 x 650 x 304 mm (25.6 x 25.6 x 11.97")	650 x 650 x 386 mm (25.6 x 25.6 x 15.2")	1050 x 1050 x 421 mm (41.34 x 41.34 x 16.57")
Weight**	9.8 kg (21.61 lb)	9.8 kg (21.61 lb)	9.8 kg (21.61 lb)	7.4 kg (16.31 lb)	13.5 kg (29.76 lb)
Frequency Range	2.3 - 2.7 GHz	3.3 - 3.8 GHz	4.9 - 5.8 GHz	5.1 - 5.9 GHz	4.9 - 5.8 GHz
Gain	24 dBi	26 dBi	4.9 GHz: 26 dBi 5 - 5.9 GHz: 30 dBi	30 dBi	4.9 GHz: 30 dBi 5 - 5.8 GHz: 34 dBi
HPOL Beamwidth	6.6° (3 dB)	7° (3 dB)	5° (3 dB)	5.8° (3 dB)	3° (3 dB)
VPOL Beamwidth	6.8° (3 dB)	7° (3 dB)	5° (3 dB)	5.8° (3 dB)	3° (3 dB)
F/B Ratio	28 dB	33 dB	34 dB	30 dB	42 dB
Max. VSWR	1.6:1	1.4:1	1.4:1	1.6:1	1.4:1
Wind Loading	787 N @ 200 km/h (177 lbf @ 125 mph)			790 N @ 200 km/h (178 lbf @ 125 mph)	1,779 N @ 200 km/h (400 lbf @ 125 mph)
Wind Survivability	200 km/h (125 mph)				
Polarization	Dual-Linear				
Cross-pol Isolation	35 dB Min.				
ETSI Specification	EN 302 326 DN2				
Mounting	Universal Pole Mount, Rocket Bracket, and Weatherproof RF Connectors Included				

* Dimensions exclude pole mount and Rocket (Rocket sold separately)

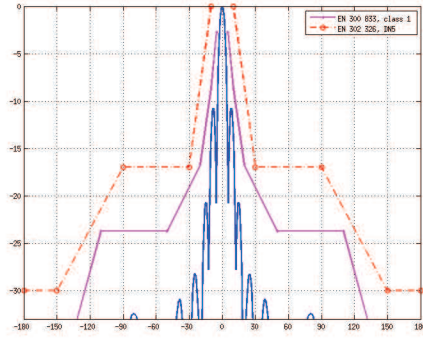
** Weight includes pole mount and excludes Rocket (Rocket sold separately)

RD-5G30 Antenna Information

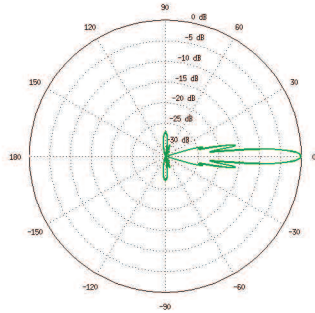
E-Plane, 5500 MHz



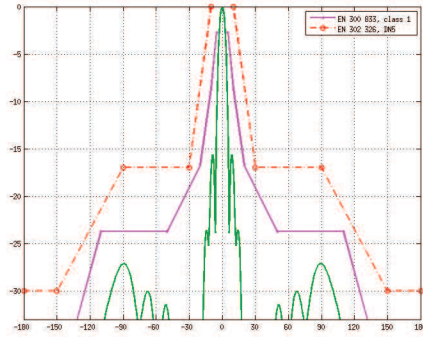
E-Plane Specs



H-Plane, 5500 MHz

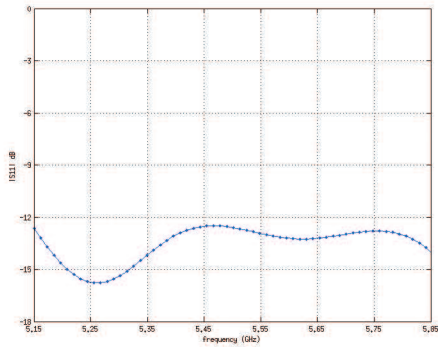


H-Plane Specs

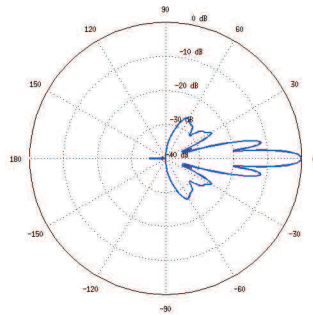


RD-5G30-LW Antenna Information

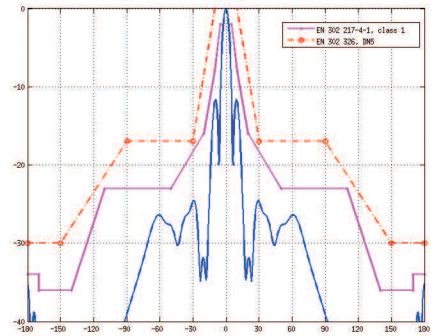
Return Loss



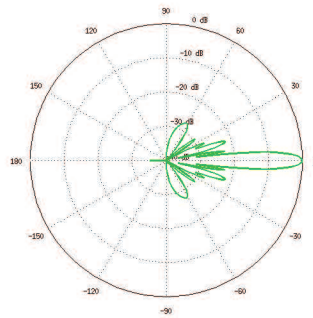
E-Plane, 5500 MHz



E-Plane Specs



H-Plane, 5500 MHz



H-Plane Specs

