



# PowerBridge *M10*

10 GHz Carrier Class airMAX PtP Bridge with Dish Antenna

Model: PBM10

Ultimate in RF Performance using the Super-High 10 GHz Radio Frequency

PowerBridge M10 Radio Easily and Securely Attaches to Dish Antenna

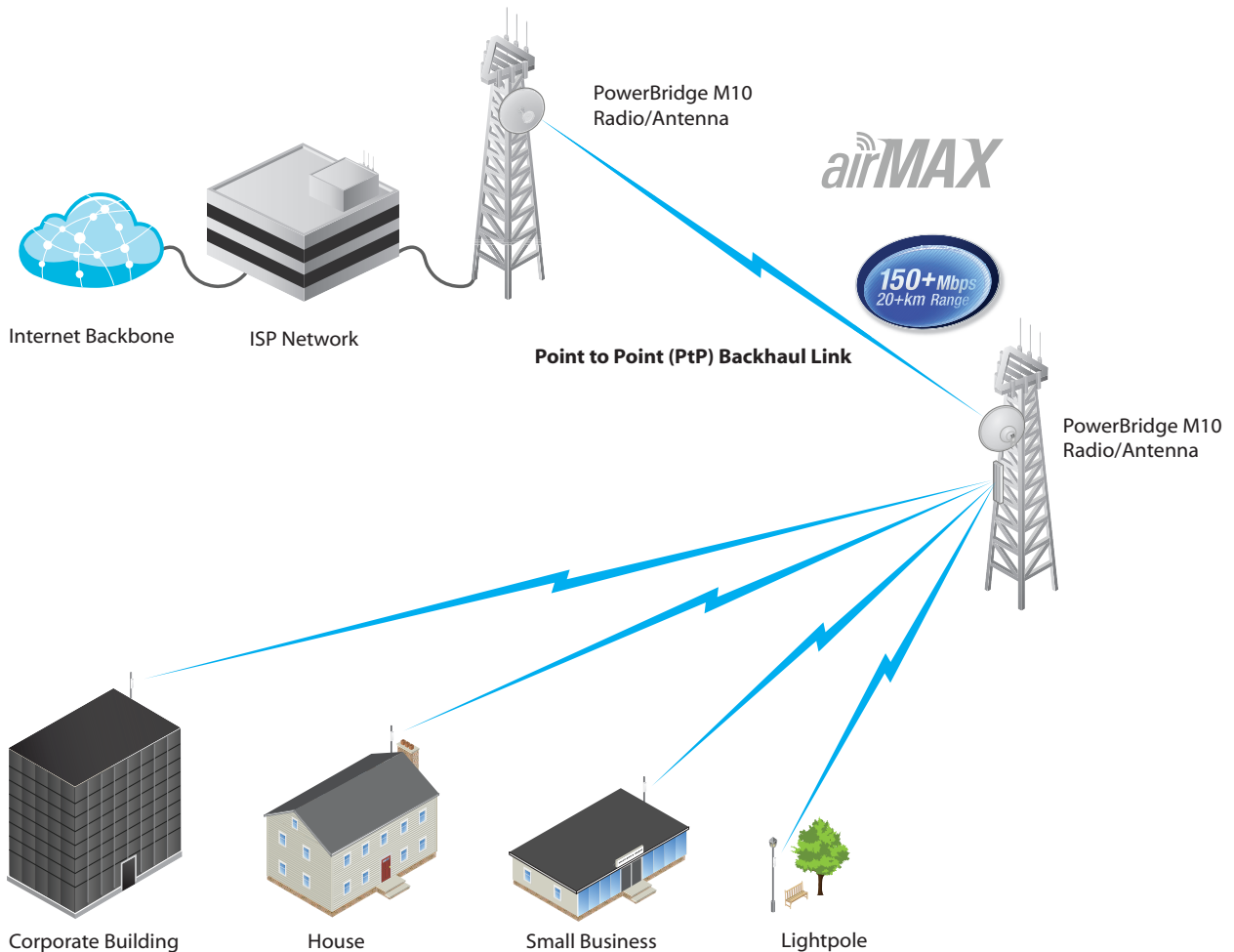
Incredible Range and Speed



# Overview

## airMAX 2X2 PtP Bridge

PowerBridge M10 is a rugged, hi-power, 2x2 MIMO radio with enhanced receiver performance using the super-high 10 GHz radio frequency. It features incredible range performance (20+km) and breakthrough speed (150+Mbps real TCP/IP). The PowerBridge M10 radio pairs seamlessly with the included Carrier Class PowerBridge M10 dish antenna, to create powerful PtP bridging applications. Below is an example of how the PowerBridge M10 can be deployed:



## Integrated airMAX Technology

Unlike the standard WiFi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This "time slot" method eliminates hidden node collisions and maximizes air time efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

**Intelligent QoS** Priority is given to voice/video for seamless access.

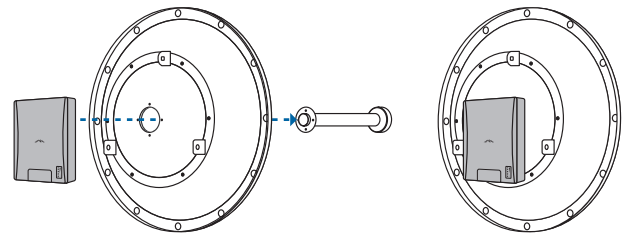
**Scalability** High capacity and scalability.

**Long Distance** Capable of high speed 20km+ links.

**Latency** Multiple features dramatically reduce noise.

## Easy Installation

The PowerBridge M10 radio and PowerBridge M10 dish antenna have been designed specifically to work together.



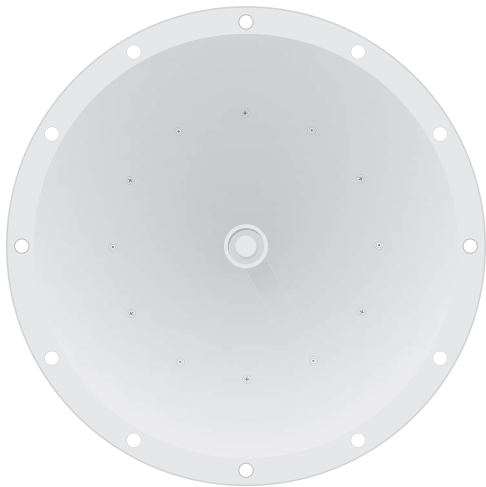
Installing the PowerBridge M10 radio onto the PowerBridge M10 dish antenna is simple and secure with the use of a Phillips-head screwdriver.

# Model Details

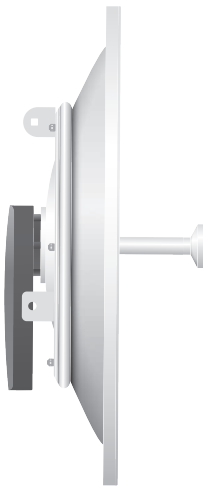
## PowerBridge M10 Radio and Dish\*

**Model: PBM10** (2 ft / 648 mm)

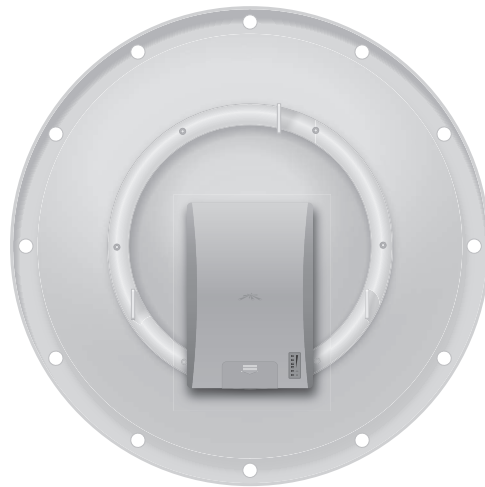
- 10.322 GHz - 10.574 GHz
- 33.0 - 34.4 dBi



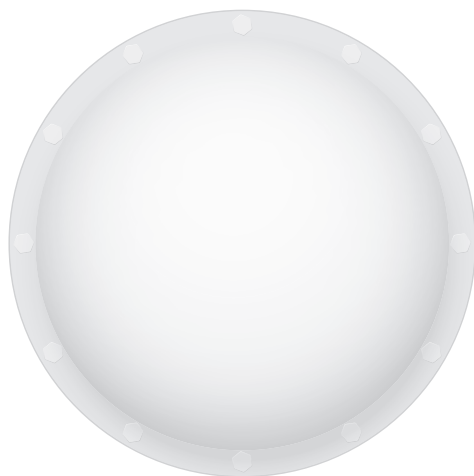
Front View



Side View



Rear View



Front View



Side View

## RocketDish Radome\*\*

**Model: RAD-2RD** (2 ft / 648 mm)

- Greatly Reduce Wind Load
- Protect Antenna Surfaces from Harsh Environments
- Conceal Antenna Equipment from Public View

\*PowerBridge M10 Radio and Dish sold together.

\*\*RocketDish Radome sold separately.

# Specifications

System Information	
Processor Specs	Atheros MIPS 24KC, 400 MHz
Memory Information	64MB SDRAM, 8MB Flash
Networking Interface	(1) 10/100 Ethernet Port

Regulatory/Compliance Information	
Wireless Approvals	CE
RoHS Compliance	Yes

Physical / Electrical / Environmental	
Enclosure Size	170 x 250 x 53 mm (without the feed) 170 x 250 x 272 mm (with the feed)
Weight	1.15 kg (without the feed) 1.2 kg (with the feed)
Enclosure Characteristics	Die Cast Aluminum
Mounting Kit	Pole Mounting Kit included
Max. Power Consumption	8 Watts
Power Supply	24V, 1A PoE Supply included
Power Method	Passive Power over Ethernet (pairs 4, 5+; 7, 8 return)
Operating Temperature	-40 to 80° C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4

Antenna Characteristics	
PBM10	
Frequency Range	10.322 GHz - 10.574 GHz
Gain	33.0 - 34.4 dBi
HPOL Beamwidth	3.0 - 3.7° over band
VPOL Beamwidth	3.0 - 3.7° over band
F/B Ratio	33 dB
Max VSWR	< 1.4:1
Dimensions	2 ft / 648 mm
Weight	9.8 kg
Wind Survivability	120 mph
Wind Loading	113 lb @ 100 mph
Polarization	Dual Linear
Cross-pol Isolation	35 dB min
ETSI Specification	EN 302 326 DN2
Mounting	Universal pole mount, PowerBridge M10 bracket