

PowerBeam[®]

High-Performance airMAX[®] Bridge Models: PBE-M5-620, PBE-M5-400, PBE-M5-300, PBE-M2-400

Uniform Beamwidth Maximizes Noise Immunity

Innovative Mechanical Design

High-Speed Processor for Superior Performance



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Overview

Starting with the first-generation NanoBridge[®], Ubiquiti Networks pioneered the all-in-one design for an airMAX[®] product functioning as a CPE (Customer Premises Equipment). Now Ubiquiti Networks launches the latest generation of CPE, the PowerBeam[®].

Improved Noise Immunity

The PowerBeam directs RF energy in a tighter beamwidth. With the focus in one direction, the PowerBeam blocks or spatially filters out noise, so noise immunity is improved. This feature is especially important in an area crowded with other RF signals of the same or similar frequency.

Integrated Design

Ubiquiti's InnerFeed® technology integrates the radio into the feedhorn of an antenna, so there is no need for a cable. This improves performance because it eliminates cable losses.

Providing high performance and innovative mechanical design at a low cost, the PowerBeam is extremely versatile and cost-effective to deploy.

airMAX Technology Included

Unlike standard Wi-Fi 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 airtime efficiency. It provides significant performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

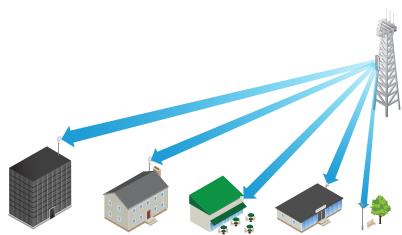
Intelligent Qos Priority is given to voice/video for seamless streaming.

Scalability High capacity and scalability.

Long Distance Capable of high-speed, carrier-class links.

Application Examples

PtMP Client Links

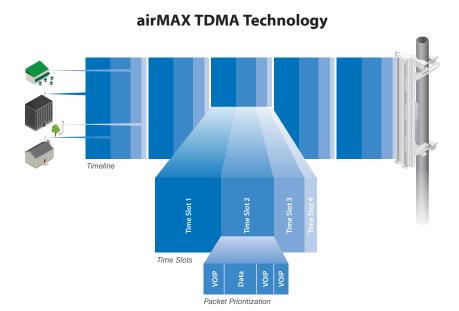


The PowerBeam used as a CPE device for each client in an airMAX PtMP network.



The PowerBeam as a powerful wireless client.

Use a PowerBeam on each side of a PtP link.



Up to 100 airMAX stations can be connected to an airMAX Sector; four airMAX stations are shown to illustrate the general concept.

Software

airOS® is an intuitive, versatile, highly developed Ubiquiti firmware technology. It is exceptionally intuitive and was designed to require no training to operate. Behind the user interface is a powerful firmware architecture, which enables high-performance, outdoor multi-point networking.

- Protocol Support
- Ubiquiti Channelization
- Spectral Width Adjustment
- ACK Auto-Timing
- AAP Technology
- Multi-Language Support

airView

Integrated on all Ubiquiti M products, airView[®] provides advanced spectrum analyzer functionality: waterfall, waveform, and real-time spectral views allow operators to identify noise signatures and plan their networks to minimize noise interference.

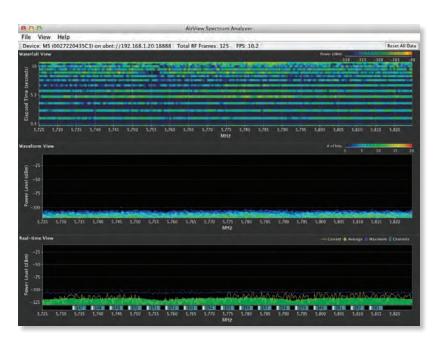
- Waterfall Aggregate energy over time for each frequency.
- **Waveform** Aggregate energy collected.
- **Real-time** Energy is shown in real time as a function of frequency.
- **Recording** Automate airView to record and report results.

air Control

airControl[®] is a powerful and intuitive, web-based server network management application, which allows operators to centrally manage entire networks of Ubiquiti devices.

- Network Map
- Monitor Device Status
- Mass Firmware Upgrade
- Web UI Access
- Manage Groups of Devices
- Task Scheduling







PowerBeam

Hardware Overview

Innovative Mechanical Design

- **Built-in mechanical tilt** The mounting bracket conveniently offers 20° of uptilt and up to 20° of downtilt.
- **Quick assembly** The number of fasteners was reduced to simplify assembly. Tools are required only when the technician mounts the PowerBeam on the pole.
- **Easy removal** The antenna feed can be detached with the push of a button.

Model Comparison

Corrosion Resistance

- **Fasteners** GEOMET-coated for improved corrosion resistance when compared with zinc-plated fasteners.
- **Dish and brackets** Made of galvanized steel that is powder-coated for superior corrosion resistance.
- The redesigned pole bracket for the 400 mm dish and fender washers for the 300 mm dish prevent paint from being removed from the metal brackets for improved corrosion resistance.

	PBE-M5-620	PBE-M5-400	PBE-M5-300	PBE-M2-400
Frequency Band	5 GHz	5 GHz	5 GHz	2.4 GHz
Antenna Gain	29 dBi	25 dBi	22 dBi	18 dBi
Dish Reflector	620 mm	400 mm	300 mm	400 mm
Throughput	150+ Mbps	150+ Mbps	150+ Mbps	150+ Mbps
Network Interface	10/100/1000	10/100/1000	10/100	10/100



PowerBeam® 400 mm Badome

Model	PBE-M2-400	PBE-M5-400	PBE-M5-300
PBE-RAD-400	\checkmark	~	N/A

A protective radome is available as an optional accessory for the PBE-M2-400 and PBE-M5-400.

PowerBeam[®] Accessories IsoBeam[®]

Model: ISO-BEAM-620



The IsoBeam $^{\!\!\!\!\!^{M}}$ is an isolator radome that is available as an optional accessory for the PBE-M5-620 and other models:

- airFiber® AF-5G30-S45
- PowerBeam PBE-5AC-620
- RocketDish[™]RD-5G30-LW

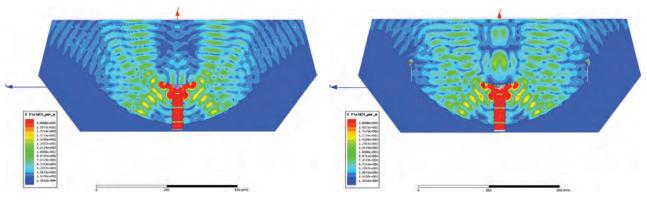
The innovative RF-choke perimeter of the IsoBeam delivers superior noise immunity in co-location deployments; its perimeter corrugation provides enhanced RF shielding. Compare the two near-field plots below, and note the breakthrough isolation performance of the IsoBeam.

Both near-field plots are displayed in watts and use a linear scale. The strength of the electromagnetic field is color-coded:

- Red: Highest strength
- · Green: Medium strength
- Indigo: Lowest strength

Without IsoBeam

With IsoBeam



Precision Alignment Kit

Model: PAK-620



The Precision Alignment Kit is available as an optional accessory for the PBE-M5-620. It features 15° of azimuth adjustment and 15° of elevation adjustment to enable extremely accurate aiming for optimal PtP link performance.

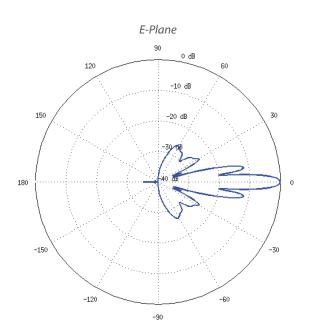
The Precision Alignment Kit is also compatible with other dish antennas:

- airFiber AF-5G30-S45
- PowerBeam PBE-5AC-620
- RocketDish RD-5G30-LW

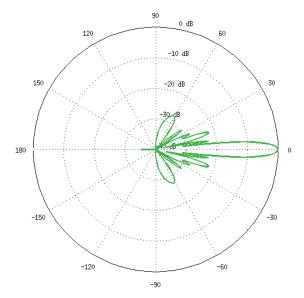
		PBE-M5-6	20		
Dimensions				620 x 620 x 386 mn	n (24.41 x 24.41 x 15.2")
Weight					6.4 kg (14.11 lb)
Power Supply					24V, 0.5A Gigabit PoE
Max. Power Consumption					8.5W
Operating Frequency	Worldwide	USA: U-NII-1	USA: U-NII-2A	USA: U-NII-2C	USA: U-NII-3
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 5350 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*
Gain					29 dBi
Networking Interface				(1) 10/1	100/1000 Ethernet Port
Processor Specs				Ather	os MIPS 74Kc, 560 MHz
Memory				6	4 MB DDR2, 8 MB Flash
LEDs				(1) Pc	ower, (1) LAN, (4) WLAN
Signal Strength LEDs			Software-	Adjustable to Correspond	to Custom RSSI Levels
Max. VSWR					1.6:1
Channel Sizes					5/8/10/20/30/40 MHz
Polarization					Dual Linear
Enclosure				Outdo	or UV Stabilized Plastic
Mounting				Pol	le-Mount (Kit Included)
Wind Loading				1510 N @200 km	n/h (340 lbf @125 mph)
Wind Survivability					200 km/h (125 mph)
ESD/EMP Protection				Air: ±	24 kV, Contact: ± 24 kV
Operating Temperature				-40	to 70° C (-40 to 158° F)
Operating Humidity				5 t	o 95% Noncondensing
Wireless Approvals					FCC, IC, CE
RoHS Compliance					Yes
Salt Fog Test	IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5				
Vibration Test					IEC 68-2-6
Temperature Shock Test					IEC 68-2-14
UV Test			IEC 68-	2-5 at 40° C (104° F), Equi	valent: ETS 300 019-1-4
Wind-Driven Rain Test			ETS 300 01	19-1-4, Equivalent: MIL-ST	D-810 G Method 506.5

			PBE-M5-620 Out	put Power: 24 d	Bm		
	TX Power S	pecifications		RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
D	6 - 24 Mbps	24 dBm	± 2 dB	a	6 - 24 Mbps	-94 dBm Min.	± 2 dB
802.11a	36 Mbps	24 dBm	± 2 dB	802.11a	36 Mbps	-80 dBm	± 2 dB
02	48 Mbps	23 dBm	± 2 dB	02	48 Mbps	-77 dBm	± 2 dB
00	54 Mbps	22 dBm	± 2 dB	00	54 Mbps	-75 dBm	± 2 dB
	MCS0	24 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	24 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	23 dBm	± 2 dB	802.11n/airMAX	MCS2	-92 dBm	± 2 dB
	MCS3	23 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	22 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
X	MCS5	21 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
802.11n/airMAX	MCS6	20 dBm	$\pm 2 dB$		MCS6	-77 dBm	± 2 dB
/air	MCS7	20 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
1n	MCS8	24 dBm	± 2 dB	1 1	MCS8	-96 dBm	± 2 dB
12.1	MCS9	24 dBm	± 2 dB	02.1	MCS9	-95 dBm	± 2 dB
80	MCS10	23 dBm	± 2 dB	80	MCS10	-92 dBm	± 2 dB
	MCS11	23 dBm	± 2 dB		MCS11	-90 dBm	± 2 dB
	MCS12	22 dBm	± 2 dB		MCS12	-86 dBm	± 2 dB
	MCS13	21 dBm	± 2 dB		MCS13	-83 dBm	± 2 dB
	MCS14	20 dBm	± 2 dB		MCS14	-77 dBm	± 2 dB
	MCS15	20 dBm	± 2 dB		MCS15	-74 dBm	± 2 dB

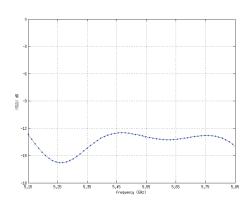
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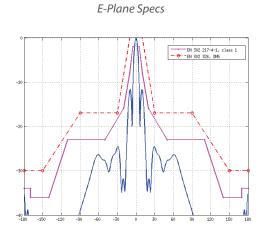




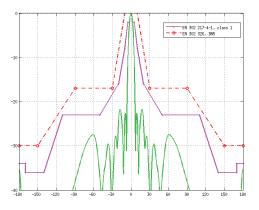








H-Plane Specs





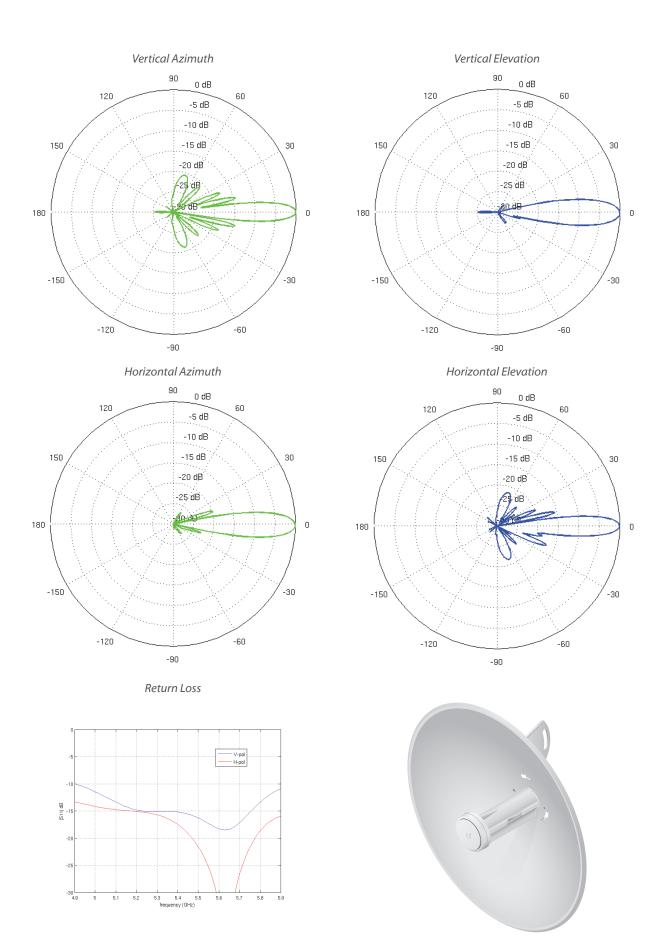
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		PBE-M5-4	00				
Dimensions				420 x 420 x 275 mm	(16.54 x 16.54 x 10.83")		
Weight					1.753 kg (3.87 lb)		
Power Supply					24V, 0.5A Gigabit PoE		
Max. Power Consumption					8W		
Operating Frequency	Worldwide	USA: U-NII-1	USA: U-NII-2A	USA: U-NII-2C	USA: U-NII-3		
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 5350 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*		
Gain					25 dBi		
Networking Interface				(1) 10/	100/1000 Ethernet Port		
Processor Specs				Athe	ros MIPS 74Kc, 560 MHz		
Memory				6	64 MB DDR2, 8 MB Flash		
LEDs				(1) Pe	ower, (1) LAN, (4) WLAN		
Signal Strength LEDs			Software-	Adjustable to Correspond	d to Custom RSSI Levels		
Max. VSWR					1.5:1		
Channel Sizes					5/8/10/20/30/40 MHz		
Polarization					Dual Linear		
Enclosure				Outdo	oor UV Stabilized Plastic		
Mounting				Ро	le-Mount (Kit Included)		
Wind Loading				278.4 N @ 120	km/h (63 lbf @ 75 mph)		
Wind Survivability					120 km/h (75 mph)		
ESD/EMP Protection				Air: ±	24 kV, Contact: ± 24 kV		
Operating Temperature				-40	0 to 70° C (-40 to 158° F)		
Operating Humidity				5 1	to 95% Noncondensing		
Wireless Approvals					FCC, IC, CE		
RoHS Compliance					Yes		
Salt Fog Test		IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5					
Vibration Test					IEC 68-2-6		
Temperature Shock Test					IEC 68-2-14		
UV Test			IEC 68-	2-5 at 40° C (104° F), Equi	valent: ETS 300 019-1-4		
Wind-Driven Rain Test			ETS 300 0	19-1-4, Equivalent: MIL-S	TD-810 G Method 506.5		

			PBE-M5-400 Out	tput Power: 26 dl	Bm			
	TX Power S	specifications		RX Power Specifications				
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance	
6	6 - 24 Mbps	26 dBm	± 2 dB		6 - 24 Mbps	-94 dBm Min.	± 2 dB	
11	36 Mbps	25 dBm	± 2 dB	113	36 Mbps	-80 dBm	± 2 dB	
802.11a	48 Mbps	24 dBm	± 2 dB	802.11a	48 Mbps	-77 dBm	± 2 dB	
00	54 Mbps	23 dBm	$\pm 2 dB$	00	54 Mbps	-75 dBm	± 2 dB	
	MCS0	26 dBm	$\pm 2 dB$		MCS0	-96 dBm	± 2 dB	
	MCS1	25 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB	
	MCS2	25 dBm	$\pm 2 dB$	802.11n/airMAX	MCS2	-92 dBm	± 2 dB	
	MCS3	25 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB	
	MCS4	24 dBm	$\pm 2 dB$		MCS4	-86 dBm	± 2 dB	
X	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB	
M.	MCS6	23 dBm	$\pm 2 \text{ dB}$		MCS6	-77 dBm	± 2 dB	
/air	MCS7	23 dBm	± 2 dB	/air	MCS7	-74 dBm	± 2 dB	
1 1	MCS8	26 dBm	± 2 dB	1	MCS8	-95 dBm	± 2 dB	
802.11n/airMAX	MCS9	25 dBm	± 2 dB	2.1	MCS9	-93 dBm	± 2 dB	
80	MCS10	25 dBm	$\pm 2 dB$	80	MCS10	-90 dBm	± 2 dB	
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB	
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB	
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB	
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB	
	MCS15	23 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB	

* Some frequencies may require activation; visit: https://www.ubnt.com/fcclabelrequest

PowerBeam[®] Datasheet



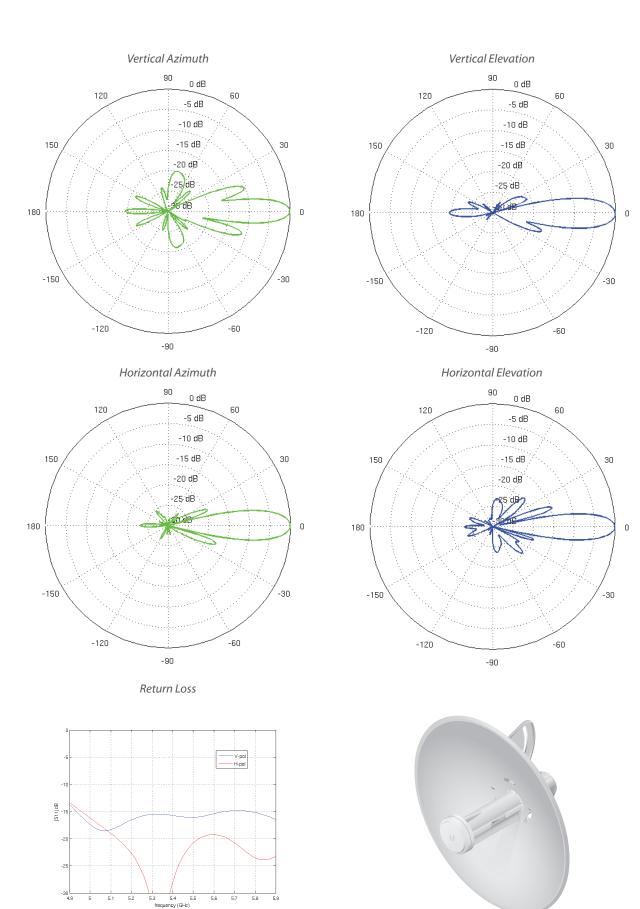
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		PBE-M5-3	00					
Dimensions		325 x 325 x 256 mm (12.80 x 12.80 x 10.08")						
Weight					1.203 kg (2.65 lb)			
Power Supply					24V, 0.5A PoE			
Max. Power Consumption					6W			
Operating Frequency	Worldwide	USA: U-NII-1	USA: U-NII-2A	USA: U-NII-2C	USA: U-NII-3			
	5150 - 5875 MHz	5150 - 5250 MHz*	5250 - 5350 MHz*	5470 - 5725 MHz*	5725 - 5850 MHz*			
Gain					22 dBi			
Networking Interface					(1) 10/100 Ethernet Port			
Processor Specs				Athe	ros MIPS 74Kc, 560 MHz			
Memory				e	54 MB DDR2, 8 MB Flash			
LEDs				(1) P	ower, (1) LAN, (4) WLAN			
Signal Strength LEDs			Software	Adjustable to Correspon	d to Custom RSSI Levels			
Max. VSWR					1.5:1			
Channel Sizes					5/8/10/20/30/40 MHz			
Polarization					Dual Linear			
Enclosure				Outdo	oor UV Stabilized Plastic			
Mounting				Pc	ble-Mount (Kit Included)			
Wind Loading				145.2 N @ 120	km/h (33 lbf @ 75 mph)			
Wind Survivability					120 km/h (75 mph)			
ESD/EMP Protection				Air: ±	\pm 24 kV, Contact: \pm 24 kV			
Operating Temperature				-4	0 to 70° C (-40 to 158° F)			
Operating Humidity				5	to 95% Noncondensing			
Wireless Approvals					FCC, IC, CE			
RoHS Compliance					Yes			
Salt Fog Test		IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5						
Vibration Test					IEC 68-2-6			
Temperature Shock Test		IEC 68-2-14						
UV Test			IEC 68	-2-5 at 40° C (104° F), Equ	ivalent: ETS 300 019-1-4			
Wind-Driven Rain Test			ETS 300 0	19-1-4, Equivalent: MIL-S	TD-810 G Method 506.5			

			PBE-M5-300 Out	put Power: 26 dl	3m		
	TX Power S	pecifications		RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
a	6 - 24 Mbps	26 dBm	± 2 dB	a	6 - 24 Mbps	-94 dBm Min.	± 2 dB
11	36 Mbps	25 dBm	± 2 dB	11.	36 Mbps	-80 dBm	± 2 dB
802.11a	48 Mbps	24 dBm	± 2 dB	802.11a	48 Mbps	-77 dBm	± 2 dB
00	54 Mbps	23 dBm	± 2 dB	00	54 Mbps	-75 dBm	± 2 dB
	MCS0	26 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	25 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	25 dBm	± 2 dB	802.11n/airMAX	MCS2	-92 dBm	± 2 dB
	MCS3	25 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	24 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
×	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
. ₩	MCS6	23 dBm	$\pm 2 dB$		MCS6	-77 dBm	± 2 dB
/air	MCS7	23 dBm	± 2 dB	/air	MCS7	-74 dBm	± 2 dB
1 1	MCS8	26 dBm	± 2 dB	1 1	MCS8	-95 dBm	± 2 dB
802.11n/airMAX	MCS9	25 dBm	± 2 dB	2.1	MCS9	-93 dBm	± 2 dB
80	MCS10	25 dBm	± 2 dB	80	MCS10	-90 dBm	± 2 dB
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
	MCS15	23 dBm	± 2 dB		MCS15	-75 dBm	± 2 dB

* Some frequencies may require activation; visit: https://www.ubnt.com/fcclabelrequest

PowerBeam[®] Datasheet



UV Test

MCS10 MCS11

MCS12

MCS13

MCS14

MCS15

28 dBm

27 dBm

25 dBm

23 dBm

22 dBm

	PBE-M2-400
Dimensions	420 x 420 x 289 mm (16.54 x 16.54 x 11.38")
Weight	1.795 kg (3.96 lb)
Power Supply	24V, 0.5A PoE
Max. Power Consumption	6W
Operating Frequency	2405-2475 MHz
Gain	18 dBi
Networking Interface	(1) 10/100 Ethernet Port
Processor Specs	Atheros MIPS 74Kc, 560 MHz
Memory	64 MB DDR2, 8 MB Flash
LEDs	(1) Power, (1) LAN, (4) WLAN
Signal Strength LEDs	Software-Adjustable to Correspond to Custom RSSI Levels
Max. VSWR	1.5:1
Channel Sizes	5/8/10/20/30/40 MHz
Polarization	Dual Linear
Enclosure	Outdoor UV Stabilized Plastic
Mounting	Pole-Mount (Kit Included)
Wind Loading	278.4 N @ 120 km/h (63 lbf @ 75 mph)
Wind Survivability	120 km/h (75 mph)
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Wireless Approvals	FCC, IC, CE
RoHS Compliance	Yes
Salt Fog Test	IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5
Vibration Test	IEC 68-2-6
Temperature Shock Test	IEC 68-2-14

 $\pm 2 \, dB$

 $\pm 2 \text{ dB}$

 $\pm 2 \text{ dB}$

 $\pm 2 \text{ dB}$

 $\pm 2 \, dB$

IEC 68-2-5 at 40° C (104° F), Equivalent: ETS 300 019-1-4

-87 dBm

-84 dBm

-79 dBm

-78 dBm

-75 dBm

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Wind-Driven Rain	n Test				ETS 300 019-1-4, I	Equivalent: MIL-STD-8	310 G Method 506.
			PBE-M2-400 Out	tput Power: 28 d	Bm		
	TX Power	Specifications			RX Power	Specifications	
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
D	1 - 24 Mbps	28 dBm	± 2 dB	D	1 - 24 Mbps	-97 dBm Min.	± 2 dB
	36 Mbps	26 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
802.11	48 Mbps	25 dBm	± 2 dB	802.11	48 Mbps	-77 dBm	± 2 dB
00	54 Mbps	24 dBm	± 2 dB	00	54 Mbps	-75 dBm	± 2 dB
	MCS0	28 dBm	± 2 dB		MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	28 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	28 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	27 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
X	MCS5	25 dBm	± 2 dB	×	MCS5	-83 dBm	± 2 dB
W.	MCS6	23 dBm	± 2 dB	W.	MCS6	-77 dBm	± 2 dB
ž	MCS7	22 dBm	± 2 dB	11n/airMAX	MCS7	-74 dBm	± 2 dB
	MCS8	28 dBm	± 2 dB	1n,	MCS8	-95 dBm	± 2 dB
2.1	MCS9	28 dBm	± 2 dB	802.1	MCS9	-93 dBm	± 2 dB
80	MCS10	28 dBm	± 2 dB	80	MCS10	-90 dBm	± 2 dB

MCS11

MCS12

MCS13

MCS14

MCS15

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 $\pm 2 \, dB$

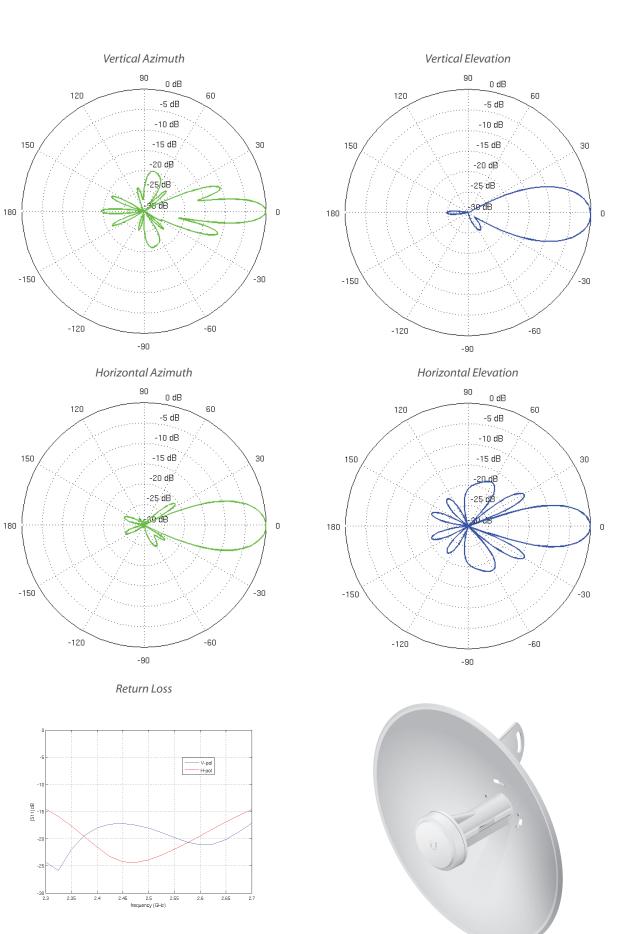
±2dB

±2dB

 $\pm 2 \text{ dB}$

±2dB

DATASHEET



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