

Synthèse des quantités à fournir :

1	Antenna PowerBeam M5 400 Ubiquiti PBE-M5-400	11
2	Point d'accès longue portée Ubiquiti Unifi6	4
3	connecteurs RJ45 (avec blindage en fer)	1000
4	Rouleaux de câble SFTP CAT7 (NB avec double blindage, c-à-d blindage de chaque pair de fil + Blindage des 4 paires dans le même câble)	1

Spécifications techniques :

1. Antenna PowerBeam M5 400 Ubiquiti PBE-M5-400 (Quantité à fournir: 11)



Specifications

PBE-M5-400					
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	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				
UV Test	IEC 68-2-5 at 40° C (104° F), Equivalent: ETS 300 019-1-4				
Wind-Driven Rain Test	ETS 300 019-1-4, Equivalent: MIL-STD-810 G Method 506.5				

PBE-M5-400 Output Power: 26 dBm							
TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
802.11a	6 - 24 Mbps	26 dBm	± 2 dB	802.11a	6 - 24 Mbps	-94 dBm Min.	± 2 dB
	36 Mbps	25 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	24 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	23 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
802.11 n/airMAX	MCS0	26 dBm	± 2 dB	802.11 n/airMAX	MCS0	-96 dBm	± 2 dB
	MCS1	25 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	25 dBm	± 2 dB		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	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	23 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	26 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	25 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	25 dBm	± 2 dB		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>

2. Point d'accès longue portée Ubiquiti Unifi6 U6 LR (Quantité à fournir: 4)



Mechanical

Dimensions	Ø197 x 35 mm (Ø7.8 x 1.4")
Weight	Without mount: 460 g (1 lb) With mount: 600 g (1.3 lb)
Enclosure material	Polycarbonate
Mount material	Stainless steel (SUS304)
Weatherproofing	IP54

Hardware

Networking interface	(1) GbE RJ45 port				
Management interface	Ethernet Bluetooth				
Power method	PoE				
Power supply	UniFi PoE switch 48V, 0.5A PoE adapter (optional)				
Supported voltage range	44–57V DC				
Max. power consumption	13W				
Max. TX power	<table border="1"><tr><td>2.4 GHz</td><td>22 dBm</td></tr><tr><td>5 GHz</td><td>26 dBm</td></tr></table>	2.4 GHz	22 dBm	5 GHz	26 dBm
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MIMO	<table border="1"><tr><td>2.4 GHz</td><td>2 x 2 (UL MU-MIMO)</td></tr><tr><td>5 GHz</td><td>4 x 4 (DL/UL MU-MIMO)</td></tr></table>	2.4 GHz	2 x 2 (UL MU-MIMO)	5 GHz	4 x 4 (DL/UL MU-MIMO)
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Throughput rate	<table border="1"><tr><td>2.4 GHz</td><td>573.5 Mbps</td></tr><tr><td>5 GHz</td><td>4.8 Gbps</td></tr></table>	2.4 GHz	573.5 Mbps	5 GHz	4.8 Gbps
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5 GHz	4.8 Gbps				
Antenna gain	<table border="1"><tr><td>2.4 GHz</td><td>4 dBi</td></tr><tr><td>5 GHz</td><td>6 dBi</td></tr></table>	2.4 GHz	4 dBi	5 GHz	6 dBi
2.4 GHz	4 dBi				
5 GHz	6 dBi				
LEDs	White/blue				
Button	Factory reset				
Mounting	Wall/ceiling (included)				
Operating temperature	-30 to 60° C (-22 to 140° F)				
Operating humidity	5 to 95% noncondensing				
Certifications	CE, FCC, IC, MIC				

Software

WiFi standards	802.11a/b/g WiFi 4/WiFi 5/WiFi 6
Wireless security	WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)
BSSID	8 per radio
VLAN	802.1Q
Advanced QoS	Per-user rate limiting
Guest traffic isolation	Supported

Concurrent clients	300+
Zero wait DFS	Yes

Supported Data Rates

802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n (WiFi 4)	6.5 Mbps to 600 Mbps (MCS0 - MCS31, HT 20/40)
802.11ac (WiFi 5)	6.5 Mbps to 3.4 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)
802.11ax (WiFi 6)	7.3 Mbps to 4.8 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)