



DESIGNED FOR



Last-Mile
Wireless to the Building



Video Surveillance
Wireless Camera Infrastructure



Hotspot
Public Access Wi-Fi

ePTMP Series ac

The ePTMP series ac boasts ultra-high-performance point-to-multipoint systems that deliver up to 500Mbps of throughput—an ideal upgrade for service providers seeking to deliver more reliable connectivity and higher subscriber capacity. Backward compatibility with ePTMP products simplifies upgrading and migration. The highly-functional operating system includes a user-friendly interface that makes it easy and intuitive to deploy and manage networks.

Professional Hardware Design

Simplified Deployment & Use

Increased Network Scalability

Ultra-High-Performance (+500Mbps)

Product Summary



Product	ePTMP MACH 5ac	ePTMP 5ac-90-16	ePTMP 5-90ac	ePTMP 5-15ac	ePTMP 5-20ac
Role Description	High-performance wireless bridge with a 23dBi directional panel antenna	A powerful base station with an integrated sector antenna, weather-proof casing, and a robust mounting bracket for professional deployment	A cost-effective base station with an integrated high-gain 90° sector antenna	High-performance wireless bridge with an integrated 15dBi directional panel antenna	High-performance wireless bridge with an integrated 20dBi directional panel antenna
Radio					
Frequency	5.150–5.850GHz (FCC 5.150–5.250 and 5.725–5.850GHz)				
Channel Size	5, 10, 20, 40, 80MHz				
Stream	MIMO 2×2				
Wireless Protocol	Proprietary iPoll 3				
Operating Mode	Point-to-Point; Point-to-Multipoint				
Max Output Power	30dBm*				
Receive Sensitivity at 40MHz Channel	-95dBm +/-2dB @BPSK -92dBm +/-2dB @QPSK -84dBm +/-2dB @16-QAM -78dBm +/-2dB @64-QAM -70dBm +/-2dB @256-QAM				
Network					
Ethernet Interface	10/100/1000 Base-T				
Aggregated Data Throughput	500Mbps				
Antenna					
Gain	23dBi	16dBi	18dBi	15dBi	20dBi
Beamwidth Horizontal	7°	90°	90°	30°	10°
Beamwidth Vertical	9°	15°	10°	30°	10°
Mounting					
Pole Diameter	1–12.4cm (0.39–4.88in)	1–12.4cm (0.39–4.88in)	3.0–6.0cm (1.1–2.4in)	2–7cm (0.8–2.7in)	3–6cm (1.1–2.4in)
Tilting	+25/–45°	+25/–45°	+43/–43°	-	+20/–20°
Powering					
Method	802.3af/at	Passive PoE; 4, 5-pin (+) and 7, 8-pin (-)			
Input Voltage	37–56V	24V			
Power Consumption	10W				

*Country-Dependent

ePTMP ac Performance Data

			Distance														
Channel	Base	CPE	0.5km			1km			2km			5km			8km		
			CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30
40MHz	ePTMP 5-90ac	ePTMP 5-15ac	280	260	240	240	230	210	230	210	190	150	130	120	N/A	N/A	N/A
		ePTMP 5-20ac	280	260	240	280	260	240	260	240	220	250	240	220	180	160	150

			Distance														
Channel	Base	CPE	0.5km			1km			2km			5km			8km		
			CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30
80MHz	ePTMP 5-90ac	ePTMP 5-15ac	400	380	360	360	340	320	350	320	300	180	160	140	N/A	N/A	N/A
		ePTMP 5-20ac	400	380	360	400	380	360	390	370	350	340	320	300	270	250	240

			Distance														
Channel	Base	CPE	0.5km			2km			5km			10km			15km		
			CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30
	ePTMP 5ac (23dBi)	ePTMP 5-20ac	280	260	240	280	260	240	260	240	220	160	150	140	140	130	120
		ePTMP 5ac (25dBi)	280	260	240	280	260	240	280	260	240	260	240	220	160	150	140

			Distance														
Channel	Base	CPE	0.5km			2km			5km			10km			15km		
			CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30	CPE ×10	CPE ×20	CPE ×30
	ePTMP 5ac (23dBi)	ePTMP 5-20ac	400	380	360	400	380	360	390	350	330	340	320	300	240	210	200
		ePTMP 5ac (25dBi)	400	380	360	400	380	360	400	380	360	39	350	330	290	270	250

Listed as true TCP values

Distance and throughput are estimated based on relatively low interference environments

Throughput is calculated on a theoretical basis and may vary from actual testing results depending on packet size and testing tools

Values indicate aggregate throughput on concurrent connected CPE

All listed throughput is calculated—not the theoretical link speed

CPE is located in the stated distance

N/A = Not Applicable

ePTMP ac Protocol: iPoll3