



**DESIGNED  
FOR**



**Video  
Surveillance**

Wireless  
Camera  
Infrastructure



**Industrial  
Applications**

For Capacity-  
Demanding  
Scenarios



**Last-Mile**

Wireless to  
the Building



**PTMP  
Backhaul**

For WISP  
& Telecom  
Networks

# PTMP Series

The PTMP series of devices are the next generation of point-to-multi-point wireless products dedicated to industrial and heavy-duty applications. PTMP are extremely reliable and long-lasting solution suitable for a wide spectrum of capacity-demanding applications ranging from construction sites and racing tracks to seaports and oil fields. PTMP comes with a durable metal casing, delivers high-speed performance, and allows for simplified deployment and configuration.

**Incredible Performance  
(+600Mbps)**

**Simplified Deployment  
& Configuration**

**Carrier-Grade  
Design**

**Ideal for Capacity-  
Demanding Applications**

# Product Summary



Product	BASE 5-N	BASE 5-90	SU 5-N	SU 5-20	SU 5-23
Role Description	Professional high-performance PTMP base station to be used with an external antenna	Professional high-performance PTMP base station with an integrated sector antenna	Professional high-performance PTMP subscriber unit to be used with an external antenna	Professional high-performance PTMP subscriber unit for short to mid-range connectivity	Professional high-performance PTMP subscriber unit for mid to long-range connectivity
Radio					
Frequency	4.900–5.850GHz (FCC: 4.940–4.990GHz, 5.150–5.250GHz, 5.725–5.850GHz)				
Channel Size	5, 10, 20, 40, 80MHz				
Duplexing	TDD				
Stream	MIMO 2×2				
Wireless Protocol	Proprietary W-Jet V				
Max Output Power	31dBm*		31dBm*		
Modulation Schemes	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM				
Network					
Ethernet Interface	2× 10/100/1000 Base-T		10/100/1000 Base-T		
Aggregated Data Throughput	600Mbps				
Antenna					
Type	N-connectors for external antenna	Integrated 90° sector antenna	N-connectors for external antenna	Integrated directional panel antenna	Integrated directional panel antenna
Gain	Antenna-dependent	17dBi	Antenna-dependent	20dBi	23dBi
Beamwidth Horizontal	Antenna-dependent	90°	Antenna-dependent	10°	7°
Beamwidth Vertical	Antenna-dependent	12°	Antenna-dependent	10°	9°
Mounting					
Pole Diameter	1–12.4cm (0.39–4.88in)				
Tilting	+25/–45°				
Powering					
Method	PoE 802.3af/at				
Input Voltage	+/- 48VDC				
Power Consumption <i>*Country-Dependent</i>	8.6W				

# PTMP Performance Data

Distance																				
Channel	Base	CPE	0.5km			1km			2km			5km			8km			12km		
			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	CPE ×10	CPE ×20	CPE ×30
40MHz	Base 5-90	SU 5-20	290	270	260	280	260	250	280	250	240	250	240	220	190	170	150	N/A	N/A	N/A
		SU 5-23	290	270	260	280	260	250	280	250	240	260	250	240	250	220	200	190	170	150
80MHz	Base 5-90	SU 5-20	450	430	410	440	420	400	440	410	390	410	390	370	300	270	250	N/A	N/A	N/A
		SU 5-23	450	430	410	440	420	400	440	410	390	420	410	390	330	300	280	260	230	200
40MHz	Base 5N (23dBi)	SU 5-N (25dBi)	290	270	260	280	260	250	280	260	250	270	260	240	260	230	210	200	180	160
80MHz	Base 5N (23dBi)	SU 5-N (25dBi)	450	430	410	440	420	400	440	420	400	430	410	390	380	360	340	300	280	260

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

PTMP Protocol: W-Jet V