



WipAir
PTMP

The intelligent
Point-to-Multipoint
choice

Marking the highest capacity in the market, WipAir PTMP delivers 310 Mbps net throughput per sector with best latency, RF robustness and QoS. WipAir is the ultimate Point-to-Multipoint system for carriers, last mile enterprises, security networks and high-end broadband connectivity.



Point-to-Multipoint Applications



- Multi-backhaul solutions
- IP video surveillance and security networks
- Backbone for Metro WiFi Networks
- Business grade wireless access
- Broadband access services for Wireless Internet Service Providers (WISPs)
- Enterprise & Municipal wireless networks
- High bandwidth campus solutions
- **Green networks** – WipAir unit can be powered via solar panels providing wireless connectivity in remotest locations

WipAir PTMP Leadership

With over a decade of WaveIP PTMP experience, WipAir embodies a standard of perfection with the highest 310 Mbps net capacity and unique interference rejection technologies, guaranteeing high performance, error-free and most stable operation in the market.

Leader in Capacity

WipAir PTMP delivers 310 Mbps net throughput per sector, marking the highest capacity in the market, carrying dozens of high resolution video applications, voice and data.

A single WipAir PTMP unit may replace existing multi-unit solutions, simplifying installation & maintenance and forming aesthetic, cost effective deployment.

Leader in Error-free Communication

WipAir PTMP introduces TDMA (Time Division Multiple Access) protocol that schedules the transmission and reception time of each subscriber, maximizing system efficiency and ensuring collision-free operation.

Unique Hitless ACM (Adaptive Coding & Modulation), fastest ARQ (Automatic Retransmit reQuest) and superb hardware performance, makes WipAir the only stable and error-free solution in the market.

Leader in Quality of Service

WipAir innovative protocol minimizes system latency and maximizes efficiency and capacity. The Built in QoS (Quality of Service) is based on 802.1p & DSCP with 8 priority queues per SU and includes traffic shaping capabilities with SLA (Service Level agreement) configuration for the uplink and downlink independently.

WipAir PTMP allows overbooking of available throughput, automatically allocates the resources to guarantee the delivery and performance according to traffic priority.

Leader in Time Synchronization

WipAir PTMP Base station allows collocation of multiple units on the same tower and on collocated towers while reusing frequencies and eliminating self interference between them.

This synchronization satisfies unlimited number of radio units and designed for dense Cellular-like deployments.

Leader in Stability & RF Robustness

WipAir unique Automatic Interference Sensibility (AIS) technology guarantees unmatched stability in latency and throughput in highly interfered environments.

Deployments in congested areas show 10-50 times better performance in throughput and latency compared to competition. In some cases, WipAir is the only working solution.

Leader in Scalability & Flexibility

WipAir PTMP extracts flexibility into a new level offering software upgrades between PTP and PTMP modes and software upgrades between subscriber models (varying from 5 Mbps to 310 Mbps).

WipAir PTMP together with WipAir PTP enable the operator to optimize the network performance and maintenance, creating unlimited opportunities for last mile and backhaul deployments.



Leader in Green Technology

WipAir compact design and extremely low power consumption of less than 7Watt allows utilizing solar power energy to power the base stations and subscribers.

WaveIP is committed to develop and manufacture green, state of the art products of the highest quality.

Point-to-Multipoint in Video Surveillance

Video surveillance is a key application for PTMP topology. Securing a large perimeter using wireless solution is the fastest, easiest and usually the most affordable way.

WipAir solution is optimized for video surveillance, CCTV and Homeland security applications, providing essential technological advantages:

- Highest net throughput of 310 Mbps
- Most efficient dynamic asymmetric capacity (270 Mbps one-way) designed for most demanding video applications
- TDMA based protocol guarantees collision-free operation
- The only solution in the market with real interference rejection technology assuring constant capacity
- Hitless ACM and fastest ARQ ensures error-free operation
- 2xRJ-45 ports - built in power redundancy/PoE for the camera
- Real time synchronization capability eliminates self interference between WipAir units in dense security deployments
- Green surveillance - lowest power consumption per radio



About WaveIP

WaveIP is the technology leader of Point-to-Point and Point-to-Multipoint Broadband Wireless solutions in the sub-11 spectrum, founded in January 2000.

WaveIP solutions are perfect for IP & cellular backhubs, video surveillance and security networks, enterprises and municipality networks and business grade broadband access services.

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