

WipAir 6000

The ultimate carrier grade wireless bridge

WipAir 6000 is the most advanced OFDM 2x2 MIMO carrier class wireless system and most versatile radio in 700 MHz, 900 MHz, 2.0-2.3, 2.3-2.7, 3.3-3.8, 4.9 & 5.x GHz bands.

WipAir 6000 Point-to-Point & Point-to-Multipoint solution sets a benchmark of unrivaled performance, reliability, capacity, latency and RF robustness making it the ultimate choice for future-proof wireless systems.

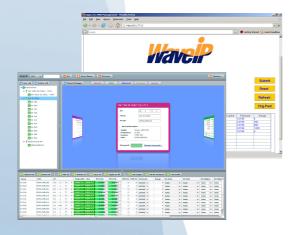
WipAir 6000 exceptional highlights

High Performance Radio

- Superior net throughput 200 Mbps (100 Mbps FD)
- Dynamic asymmetric capacity
- Best latency 1ms typical
- More than 100,000 PPS (Packets Per Second)
- Long range more than 130 Km
- Configurable channel bandwidth 5 / 10 / 20 / 40 MHz
- 128-bit AES encryption & MAC level authentication

RF Interference Robustness

- AIS (Automatic Interference Sensibility) unique technology that makes WipAir the most stable wireless solution in the market
- Time Synchronization eliminates self interference and allows frequency reuse
- 2x2 dual polarization MIMO for high capacity and diversity
- The only solution with Hitless ACM (Adaptive Coding & Modulation)
- Fastest ARQ Automatic Retransmit reQuest
- ACS Automatic Channel Selection
- DFS Dynamic Frequency Selection
- ATPC Automatic Transmit Power Control
- FEC Forward Error Correction





Advanced Networking

- Point-to-Point & Point-to-Multipoint modes
- WEB, EMS, SNMP and Telnet management
- QoS based on 802.1q & 802.1p
- VLAN tagging/stripping
- Up/downstream bandwidth control
- Packet filtering based on broadcast, VLAN & IP
- Over the air remote management

Extremely Low CAPEX & OPEX

- Most competitive price
- Rugged & Reliable weather resistant design
- Compact & Simple to install:
 - RSSI buzzer for easy alignment
 - Built in RF Analyzer
 - < 6Watt power consumption
- · Built in consecutive/concatenation capability
- Built in power & data redundancy
- Multiple frequency bands in one radio
- Flexible licensed / unlicensed radio



WipAir 6000

Specifications

Radio

Radio Frequency	700MHz, 900 MHz, 2.0-2.3 GHz, 2.3-2.7 GHz, 3.3-3.8 GHz, 4.9 GHz, 5.x GHz							
Net Throughput	Up to 200 Mbps (100 Mbps Full Duplex)							
PPS	>100,000 Packets Per Second							
Range	More than 130 Km							
Channel Size	Configurable - 5 / 10 / 20 / 40 MHz							
Waveform	Advanced OFDM 2x2 dual polarization MIMO							
Output Power	Configurable up to 26 dBm, 40 dB dynamic range							
Handling Interference	AIS – Automatic Interference Sensibility Hitless ACM – Adaptive Coding & Modulation ACS – Automatic Channel Selection FEC – Forward Error Correction, k = 1/2, 2/3, 3/4, 5/6 Fast ARQ – Automatic Retransmit reQuest							
Encryption & Security	128-bit AES & MAC level authentication							
Modulation	BPSK	QPSK		16QAM		64QAM		
FEC	1/2	1/2	3/4	1/2	3/4	2/3	3/4	5/6
Data Rate @ 5 MHz (Mbps)	3.25	6.5	9.75	13	19.5	26	29.25	32.5
Data Rate @ 10 MHz (Mbps)	6.5	13	19.5	26	39	52	58.5	65
Data Rate @ 20 MHz (Mbps)	13	26	39	52	78	104	117	130
Data Rate @ 40 MHz (Mbps)	30	60	90	120	180	240	270	300
Sensitivity @ 20 MHz (dBm)	-87	-85	-83	-80	-78	-72	-70	-67

Networking and Management

Topology	Point-to-Point (PTP), Point-to-Multipoint (PTMP)		
Access Technology	Chnology Time Division Duplex (TDD) – Dynamic or Symmetric		
Data Latency	1ms typical		
Network modes	Layer 2 Bridge, VLAN, VLAN / broadcast / IP filters		
VLAN	Transparent, VLAN filter, tagging/stripping		
QoS	8 priority queues based on 802.1q & 802.1p		
Traffic shaping	SLA (Service Level Agreement) provisioning for uplink and downlink independer		
Management	WEB, EMS, SNMP, Telnet, Built in throughput test and RF Analyzer tools		

Physical and Environmental

Physical Interface		2 X 10/100 Base-T (ODU)	
Connector Type		RJ-45	
Mechanical		19 x 19 x 4 cm (external antenna port)	
PoE Adapter: • Input Power • Mechanical		100-240 VAC, 47-63 Hz 10 x 5 x 2.5 cm	
Mounting		Wall or pole	
Power Consumption		<6Watt	
Operating Temperature		-30°c to 55°c	
Operating Humidity		100% non condensing (Rainproof)	
Power		Power over Ethernet (PoE) - 48 VDC	



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