



Unparalleled Access

The Mimosa A5 access point delivers cutting-edge multipoint technology for service providers to affordably deliver the industry's first scalable gigabilit wireless broadband network.

Fiber Speed Access

Capable of delivering the speed business users and consumers need at a fraction of the cost of delivering fiber to the premise.

Bigger and Faster

With up to 1.5 Gbps of total capacity, the Mimosa A5 is the industry's fastest multipoint solution.

Network Scalability Perfected

Unique integrated high precision GPS Sync technology allows every deployed device to be collaboratively synchronized across the network, allowing easy channel reuse to save spectrum network-wide.

Working Above the Noise

Advanced Auto-Gain Control techniques automatically squelch out underlying interference with only 10 dB

operating margin required to deliver incredible client performance.

Network-Wide Cloud Control

Mimosa Cloud makes deployment a breeze, interacting with devices network-wide to proactively assist the A5 to optimize network and subscriber experience for the best performance and capacity management.

Beautifully Compact

Delivering leading performance in a tiny form factor, the A5 makes suburban rooftop or urban installation a fast, easy and discrete solution.

Total Efficiency

Using smart antenna beamforming and MU-MIMO technologies, the A5 delivers incredible spectrum efficiency, meaning more bandwidth for users and more users can join the network.

Technical Specifications

Performance

- · Max Throughput: Up to 1.0 Gbps IP (1.7 Gbps PHV)
- · Client Capacity: 100 clients
- Wireless Protocols: WiFi Interop, Mimosa GPS Sync

Radio

- MIMO & Modulation: 4x4:4 MIMO OFDM up to 256-QAM
- Bandwidth*: 20/40/80 MHz channels tunable in 5 MHz increments for GPS Sync; tunable in 20 MHz increments for WiFi Interop
- Frequency Range: 4900 6200 MHz restricted by country of operation ('new' US/FCC 5600-5650 support)
- · Max Output Power: 30 dBm
- · Sensitivity (MCS 0): -87 dBm @ 80 MHz, -90 dBm @ 40 MHz, -93 dBm @ 20 MHz

Antenna

- Gain: A5-18: 18 dBi
- A5-14: 14 dBi
- Beamwidth (3 dB): 70° azimuth
- Electrical Downtilt: A5-18: 4° A5-14: none
- Front-to-Back Ratio: >30 dB
- Cross-Polar isolation: >20 dB or greater
- · Polarization: 4 Panels, Alt. Circular

Physical

Dimensions:

- Height 18 dBi: 668 mm (26.29") 14 dBi: 314 mm (12.36") Width - 142.44 mm (5.61")
- Weight: 18 dBi: 2.73 kg (6 lbs) 14 dBi: 1.75 kg (3.85 lbs)
- Enclosure Characteristics: Outdoor UVstabilized engineered polymer
- Wind Survivability: 200 km/h (125 mph)
 - Wind Loading: 18 dBi: 16.03 kg @ 160 km/h 35.34 lbs @ 100 mph 14 dBi: 7.72 kg @ 160 km/h 17.03 lbs @ 100 mph
- Mounting: Dual pole strap feed points integrated into metal base with integrated curvature for contact with mounting poles

Power

- Max Power Consumption: 25W
- System Power Method: 802.3 at compliant
- System Lightning & ESD Protection: 6 kV
- · PoE Power Supply: 802.3at and Passive POE * 4.9 GHz uses 20 MHz channel widths (US only, regula-

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compliant, 48-56 V Power over Ethernet supply with IEC61000-4-5 surge protection

Environmental

- Outdoor Ingress Protection Rating: IP67
- Operating Temperature: -40°C to +55°C -40°F to 131°F)
- Operating Humidity: 5 to 100% condensing
- **Operating Altitude:** 4,420 m (14,500') maximum
- Shock & Vibration: ETS 300-019-2-4 class 4M5

Features

- Gigabit Ethernet: 10/100/1000-BASE-T
- MU MIMO: Device leverages directionality to transmit to multiple clients simultaneously
- **Synchronization:** GPS + GLONASS allows for network-wide sync and interference avoidance
- GPS Sync Mode: Optional TDMA protocol for increased network efficiency
- WiFi Interop Mode: Interoperates with WiFi compliant devices
- Network Processing: Advanced AP control for capacity and subscriber management
- Access Control Lists: Permit, deny and remark traffic flows
- Traffic Shaping: Per CPE UL/DL committed and maximum rate shaping
- Auto Everything: Automatic control of RF settings for optimal network performance
- Management Services: Mimosa cloud monitoring and management SNMPv2 & Syslog legacy monitoring HTTPS HTML 5 based Web UI 2.4 GHz 802.11b/g/n radio for local

management access

- Smart Spectrum Management: Active scan monitors/logs ongoing RF interference across channels (no service impact) Dynamic auto-optimization of channel and interference avoidance
- Security: WPA2 + Mimosa 802.1x RADIUS Future support of WPA2-Enterprise/HotSpot 2.0, Management VLAN support
- QoS: Supports 4 pre-configured QoS levels
- **GPS Location:** GNSS-1 (GPS + GLONASS)

Regulatory + Compliance

- Approvals: FCC Part 15.407 and Part 90Y, IC RSS210 and RSS111, CE, ETSI 301 893/302 502
- · RoHS Compliance: Yes
- Safety: UL/EC/EN/ 60950-1 + CSA-22.2

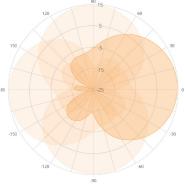


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Ouad Sector 360° Antenna



360° Antenna Top Down View



14 dBi Azimuth Antenna Plot