



## Unparalleled Access

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

### 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.

### Smart Quad Panel

Experience unprecedented coverage and gain with the first directional MIMO technology providing four individual 90° panels that uniquely transmit MIMO streams only in the direction of a desired client. The access point is also freed up to simultaneously transmit to an additional client in a different direction.

### Working Above the Noise

Advanced Auto-Gain Control techniques automatically squelch out underlying interference with only 10 dB of operating margin required to deliver incredible client performance.

### Compact and Fast

With up to 1.5 Gbps of total capacity, the Mimosa A5 is the industry's fastest multipoint solution in a tiny form factor, making suburban rooftop or urban installation a fast, easy and discrete 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.

## Technical Specifications

### Performance

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

### 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 to standard WiFi channels 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:** Circular, four alternating panels

### Physical

- **Dimensions:**  
18 dBi: 668 mm (26.29") height  
14 dBi: 314 mm (12.36") height  
142.44 mm (5.61") width
- **Weight:**  
18 dBi: 2.73 kg (6 lbs)  
14 dBi: 1.75 kg (3.85 lbs)
- **Enclosure Characteristics:** Outdoor UV-stabilized 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

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
- **Multi-User MIMO\*\*:** Device leverages beamforming to transmit to multiple clients simultaneously
- **Synchronization\*\*:** GPS+GLONASS allows for network-wide sync and interference avoidance
- **Collocation\*\*:** 1PPS GPS Tx/Rx synchronization for same tower collocation and channel reuse
- **Network Processing:** Advanced AP control for capacity and subscriber management
- **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 bandwidth use
- **Security:** WPA2 + Mimosa 802.1x RADIUS Management VLAN support
- **QoS:** Supports 4 pre-configured QoS levels
- **GPS Location:** GNSS1 (GPS + GLONASS)
- **Traffic Shaping:** Per CPE UL/DL commit and maximum rate shaping
- **Access Control List:** Permit, Deny and Remark Layer 2 and Layer 3 traffic flows

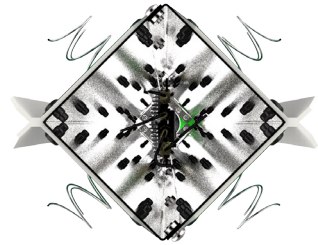
### Regulatory + Compliance

- **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

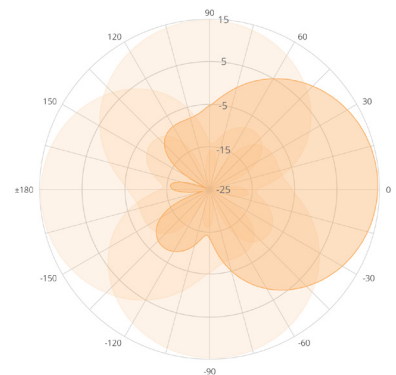
\* 4.9 GHz uses 20 MHz channel widths (US only, regulations vary by region)  
\*\* Enabled in future software release



Quad Sector 360° Antenna



360° Antenna Top Down View



14 dBi Azimuth Antenna Plot

*mimosa*

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