

# Supercharged Point-to-Multipoint (PTMP) Wi-Fi 6E-Based, 8x8, Beamforming, A6 Access Point

The A6 fixed wireless access point delivers up to 7 Gbps capacity, unbelievable subscriber capacity, and synchronized network scalability for unlicensed, outdoor, fixed wireless PTMP networks. The first future-proof solution delivering fiber fast gigabit speeds to subscribers via wireless, the A6 extends beyond the traditional 5 GHz band to take advantage of expanded 160 MHz channels in the new, low-noise 6 GHz band.

## Scalable, Low-Noise 6 GHz Band

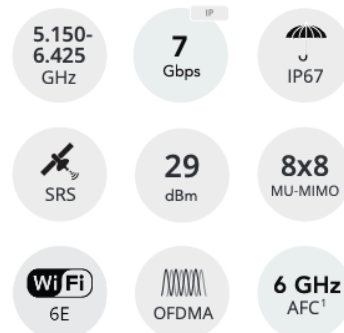
Previous OFDM-based fixed wireless solutions lacked subscriber scalability, requiring costly investment in too many AP sites, introducing massive interference in an already crowded 5 GHz band, with no noise mitigation capabilities.

## Superior Wi-Fi 6E Technology

Armed with the latest Wi-Fi 6E technologies, including 8x8 MU-MIMO, 1024-QAM, noise fighting beamforming, massively reduced resource unit size, low-latency OFDMA, and network wide GPS sync, the A6 resets nearly every performance and scalability bar in the industry.

## Extreme Performance and Value

Pairing these incredible innovations with brand new, interference-free 6 GHz spectrum, the A6 can deliver gigabit+ subscriber speeds needed for advanced rural broadband projects, and the high-scalability to tackle the most dense, urban NLOS areas cost effectively.



Need more information?

Get in touch with the Mimosa sales team by visiting [mimosa.co/contact-us](https://mimosa.co/contact-us).

## Specifications

### Performance

- **Max Throughput:**  
7 Gbps IP aggregate UL/DL (9608 Mbps PHY)
- **Wireless Protocols:**  
WiFi Interop; TDMA (future release)

### Radio

- **MIMO & Modulation:**  
8x8 MU-MIMO;  
OFDMA, BPSK-1024QAM
- **Bandwidth:**  
Single or dual 20/40/80/160 MHz channels
- **Frequency Range:**  
5150–6425 MHz  
Restricted by country of operation
- **Max Output Power:** 29 dBm
- **Rx Sensitivity: @ 1024 QAM**  
-47 dBm @ 160 MHz  
-50 dBm @ 80 MHz  
-53 dBm @ 40 MHz  
-56 dBm @ 20 MHz

### Physical

- **Dimensions:**  
Height: 490 mm (19")  
Width: 295 mm (11.6")  
Depth: 75 mm (3")
- **Weight:** 3.95 kg (8.7 lbs)
- **Enclosure Characteristics:**  
Outdoor UV-stabilized, engineered polymer with integrated metal mounting back
- **Wind Survivability:** 200 km/h (125 mph)
- **Wind Loading:** 39 kg @ 160 km/h (86 lbs @ 100 mph)
- **Mounting:** Dual standard pole straps for 30 mm (1.18") to 90 mm (3.54") OD pipes
- **Network Interface<sup>2</sup>:** (1) GbE copper PoE,  
(2) 10 GbE SFP+ (optical)

### Antenna

- **Gain:** 24 dBi with adaptive beamforming
- **Beamwidth:** 90° azimuth, 7° elevation
- **Front-to-Back Ratio:** >30 dB
- **Cross-Polar Isolation:** >20 dB
- **Polarization:** Dual-linear XPIC

### Power

- **Max Power Consumption:** 40 W
- **System Power Method:** Outdoor PoE or DC
- **System Lightning & ESD Protection:** 6 kV
- **PoE Power Supply:**  
Passive PoE compliant, 48–56 V (not included)

### 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 and Vibration:** ETS 300-019-2-4 class 4M5

### Features

- **10 Gigabit Ethernet:** (2) SFP+ (optical) ports
- **Management Services:**  
MMP support; Netconf (future support); SNMPv2c/v3; Syslog; HTTPS; HTML 5 based Web GUI; IPv4 and IPv6
- **Smart Spectrum Management:**  
Active scan monitors/logs ongoing RF interference across all channels (no service impact); Dynamic auto-optimization of channel and bandwidth use
- **Security:** WPA3; AES; RADIUS; 802.1x authorization
- **QoS:** Supports 4 user-configurable QoS levels for SRS (GPS Sync) (CBWFQ); Behavior Aggregate (BA) and CoS Classifier, with user-configurable precedence
- **VLAN:** Per subscriber VLAN, Q-in-Q, triple tagging; Management VLAN
- **Collocation Synchronization:**  
1PPS GPS TX/RX synchronization for collocated co-channel radios; Adjustable up/downstream bandwidth ratio
- **GPS Location:**  
GNSS-1 (GPS + GLONASS)

### Regulatory and Compliance

- **Approvals:**  
FCC Part 15.407; IC RSS210;  
CE (RED, EMCDD, LVD, RoHS);  
ETSI 301 893/302 502
- **RoHS Compliance:** Yes
- **Safety:** EN 62638-1



<sup>1</sup> Automatic Frequency Coordination database support via firmware update, once formally approved by the FCC

<sup>2</sup> May be upgraded prior to launch for additional functionality

Mimosa, a product division of Airspan, is the global technology leader in wireless broadband solutions, enabling service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa was acquired in 2018 by Airspan Networks Holdings Inc. (NYSE American: MIMO), the award-winning, leading vendor of 5G software and hardware.