Performance

Max Throughput	Up to 1.0 Gbps IP (1.7 Gbps PHY)
Client Capacity	256+ Clients
Low Latency	8 ms
Wireless Protocols	Wi-Fi (RTS/CTS)
	Mimosa Flexible TDMA

Radio

MIMO & Modulation	4x4:4 MIMO OFDM up to 256-QAM
Bandwidth*	20/40/80 MHz channels tunable in 5 MHz increments
Frequency Range	4900-6000 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	14 dBi (net of losses into each of four sector panels)
Beamwidth (3dB)	70° azimuth
Front-to-Back Ratio	>30 dB
Cross-Polar Isolation	>20 dB or better
Polarization	4 Panels, Alternating Circular Polarization

Power

Max Power Consumption	25 W
System Power Method	802.3at compliant
System Lightning & ESD Protection	6 kV
PoE Power Supply	Passive PoE compliant, 48-56 V Power over Ethernet supply with IEC61000-4-5 surge protection

Physical

Dimensions	Height: 321 mm Length: 142 mm
Enclosure Characteristics	Outdoor UV-stabilized engineered polymer
Wind Survivability	200 km/h (125 mph)
Wind Loading	39 kg @ 160 km/h (86 lbs @ 100 mph)
Mounting	Dual pole strap feed points integrated into metal base with integrated curvature for contact with mounting poles.

*4.9 GHz uses 20 MHz channel widths (US only, regulations vary by region)

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	4420 m (14500') maximum
Shock & Vibration	ETS 300-019-2-4 class 4M5

Features

Gigabit Ethernet	10/100/1000BASE-T
MU MIMO	Device leverages directionality to transmit to multiple clients simultaneously
Synchronization	GPS + GLONASS allows for network-wide sync and interference avoidance
TDMA Mode	Optional TDMA protocol for increased network efficiency
Network Processing	Advanced AP control for capacity and subscriber management
Auto Everything	Automatic control of bandwidth, power and channel for optimal network performance
Management Services	Mimosa cloud monitoring and management SNMPv2 & Syslog legacy monitoring HTTPS HTML5-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
	Future support of cWPA2-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, CE, ETSI 301 893/302 502
RoHS Compliance	Yes
Safety	UL/EC/EN/ 60950-1 + CSA-22.2

*Anticipated by product shipment