



Insight Technology Pvt. Ltd.
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Specification

Performance	• Max Throughput: Up to 1.5 Gbps IP aggregate UL/DL (1.7 Gbps PHY) • Low Latency: <1 ms in Auto Mode
Radio	• Wireless Protocols: TDMA, TDMA-FD • MIMO & Modulation: 4x4:4 MIMO OFDM up to 256QAM • Bandwidth*: Single or Dual 20/40/80 MHz channels • Frequency Range: 4900-6200 MHz restricted by country of operation ('new' US/FCC 5600-5650 support)
Power	• Max Output Power: 30 dBm (2-stream) 27 dBm (4-stream) • Sensitivity (MCS 0): - 87 dBm @ 80 MHz - 90 dBm @ 40 MHz - 93 dBm @ 20 MHz • Max Power Consumption: 20 W • System Power Method: 48 V DC 802.3 at compliant power injectors • 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 - 267 mm (10.5") Width - 158 mm (6.2") Depth - 74 mm (3") • Weight: 1.6 kg (3.5 lbs) • Enclosure Characteristics: Outdoor UV stabilized plastic Aluminum mounting panel • Wind Survivability: 200 km/h (125 mph) • Wind Loading: 9.89 kg @ 160 km/h (21.8 lbs @ 100 mph) • Mounting: Dual standard pole straps for 30 mm (1.18") to 90 mm (3.54") OD pipes • Connector Type: Female Type N (x2), intended for use with dual polarization antenna
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 • Dual Link Operation: 2 independent dual-stream radios operating on non-contiguous frequencies; Automatic load balancing of traffic across 4 total MIMO streams with individual stream encoding up to 256 QAM • Management Services: Mimosa cloud monitoring and management; SNMPv2 & Syslog legacy monitoring; HTTPS; HTML 5 based Web UI; 2.4 GHz 802.11b/g/n



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radio for local management access

- Smart Antenna Alignment: Hands-free dedicated 2.4 GHz Wi-Fi management radio alignment tool
- Smart Spectrum Management: Active scan monitors/logs ongoing RF interference across channels (no service impact); Dynamic auto-optimization of channel and bandwidth use
- Security: 128-bit AES PSK with hardware acceleration
- QoS: Supports 4 pre-configured QoS levels
- GPS Location: GNSS-1 (GPS + GLONASS)
- Collocation Synchronization: 1PPS GPS TX/RX synchronization for collocated co-channel radios Adjustable up/downstream bandwidth ratio