mimosa™

B5c Specifications

Performance

Max Throughput	Up to 1.0 Gbps IP (1.7 Gbps PHY)
Low Latency	2+ ms
Wireless Protocols	TDMA

Radio

MIMO & Modulation	4x4:4 MIMO OFDM up to 256QAM
Bandwidth	Single or Dual 20/40/80 MHz channels
Frequency Range	4900-6000 MHz restricted by country of operation (*new* US/FCC 5600-5650 support)
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

Power

Max Power Consumption	20W
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: 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
Mounting	Dual standard pole straps for 30 mm (1.18”) to 90 mm (3.54”) OD pipes

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	10/100/1000-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 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)

Regulatory + Compliance

Approvals	FCC Part 15.407 and Part 90Y, IC RS10, CE, ETSI 301 893/302 502
RoHS Compliance	Yes
Safety	UL/EC/EN/ 60950-1 + CSA-22.2