

C6x | Flexible Client & Backhaul, Built for Any Deployment

Unlicensed 6 GHz Radio with Modular Antennas for PTP and PTMP

The Mimosa C6x is a high-performance client and backhaul radio designed for maximum flexibility across point-to-multipoint and point-to-point deployments. Delivering up to 2.0 Gbps in PTP and 1.75 Gbps in PTMP, the C6x combines advanced interference mitigation and modular antenna options to adapt to a wide range of environments. Whether extending networks or connecting subscribers, the C6x provides reliable, scalable performance where it's needed most.



Dual-Mode Flexibility (PTP + PTMP)

Operate as a high-speed backhaul link or a PTMP client, adapting to changing network needs.

Modular Antenna System

Integrated 8 dBi antenna with optional N5-X twist-on antennas (12–30 dBi) for optimized range and performance.



Multi-Gigabit Performance

Up to 2.0 Gbps (PTP) and 1.75 Gbps (PTMP), supporting bandwidth-intensive applications.

Carrier-Grade Reliability

IP67-rated design with robust RF performance and cloud-based management for consistent, long-term operation.

Ideal Applications

PTMP Subscriber Connectivity

Deliver high-speed broadband as a client device paired with the A6 access point.

Network Expansion & Edge Extension

Quickly extend coverage to new service areas with a flexible radio that adapts to deployment needs.

Short- to Mid-Range Backhaul (PTP)

Establish high-capacity links between network nodes without additional hardware platforms.

Rapid Deployment Scenarios

Deploy fast in environments where fiber is delayed, unavailable, or cost-prohibitive.

PERFORMANCE

Max Throughput:	PTP: 2.0 Gbps IP aggregate PTMP: 1.75 Gbps IP aggregate UL/DL (2402 Mbps PHY)
Wireless Protocols:	WiFi Interop; Auto-TDD; PTMP TDMA
Modes:	PTP backhaul, PTMP client

RADIO

MIMO & Modulation:	2x2, PTMP MU-MIMO, BPSK-1024QAM
Bandwidth:	20/40/80/160 MHz channels, tunable to 5 MHz increments
Frequency Range:	5150–7125 MHz (HW/Chip supported and restricted by country of operation)
Max Output Power:	24 dBm
Rx Sensitivity (MCS 0):	-87 dBm @ 160 MHz -90 dBm @ 80 MHz -93 dBm @ 40 MHz -96 dBm at 20 MHz

POWER

Max Power Consumption:	20 W
System Power Method:	Passive PoE
PoE Power Supply:	Compliant, 24 V (PoE injector not included)

PHYSICAL

Dimensions:	Height: 178mm (5") Width: 113mm (4.5") Depth: 67mm (2.6")
Weight:	0.7 kg (1.54 lbs)
RF Connector Type:	Mimosa N5-X twist-on
Enclosure Characteristics:	Die-cast aluminum, UV stabilized paint, with outdoor UV stable plastic radome lens
Mounting:	Dual-pole strap capable
Grounding:	Ground lug

ENVIRONMENTAL

Outdoor Ingress Protection Rating:	IP67
Operating Temperature:	-40° C to + 55° C
Operating Humidity:	5 to 100% Condensing
Operating Altitude:	4,420 m (14,500') maximum
Shock and Vibration:	ETS 300-019-2-4 calss 4M5

REGULATORY AND COMPLIANCE

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

FEATURES

Gigabit Ethernet:	10/100/1000-BASE-T
Management Services:	MMP 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:	AES; RADIUS; 802.1x authorization, Rogue DHCP Server Protection
QoS:	WiFi Interop Mode WMM; SRS mode supports 4 user configurable QoS levels supporting both CBWFQ and PQ (future release)
VLAN:	Q-in-Q (future release), double tagging, management VLAN, PTMP per client VLAN, VLAN filtering (ingress), passthrough VLANs, and multicast VLAN forking
Part Number:	100-00111
Compatible PoE:	502-00030 PoE Injector 24V 30W SOLD SEPARATELY

Mimosa Networks, a wholly owned subsidiary of Radisys, 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 Networks was acquired in 2023 by Radisys, the global leader in open telecom solutions. DS- 2026-04-C6x.

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