

C6x Lite Edition | Essential Performance, Exceptional Value

Unlicensed 6 GHz Radio with Modular Antennas for PTP and PTMP

The Mimosa C6x Lite Edition (LE) is a cost-effective client and backhaul radio built for reliable performance across point-to-multipoint and point-to-point deployments. Delivering up to 1.0 Gbps in PTP and 750 Mbps in PTMP, the C6x LE provides dependable connectivity in a simplified, affordable platform. With modular antenna options and seamless integration into existing networks, it's an ideal upgrade path for operators looking to modernize without increasing cost.



Cost-Optimized Performance

Deliver up to 1.0 Gbps (PTP) and 750 Mbps (PTMP) at a price point aligned with legacy C5x deployments.

Modular Antenna System

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



Simple Upgrade Path

Designed as a direct evolution of the C5x, enabling easy network upgrades without major redesign.

Reliable in Real-World Conditions

Enhanced interference resilience and 80 MHz channel support simplify planning and improve consistency.

Ideal Applications

Cost-Conscious Subscriber Deployments

Deliver reliable broadband service while maintaining tight budget constraints.

Standard PTMP Client Installations

Support everyday subscriber connections with consistent, predictable performance.

Rural & Emerging Market Connectivity

Provide dependable access in areas where affordability and simplicity are critical.

Short-Range Backhaul Links

Enable efficient point-to-point links where ultra-high capacity is not required.

PERFORMANCE

Max Throughput	PTP: 1.0 Gbps IP aggregate PTMP: 750 Mbps IP aggregate UL/DL (1200 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 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)	-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 class 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, double tagging, management VLAN, PTMP per client VLAN, VLAN filtering (ingress), passthrough VLANs, and multicast VLAN forking
Part Number	100-00111-01
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-LE.