

MIM-C6X-LITE

Mimosa C6x Lite Edition Wireless Radio High-Speed PtMP & PtP connectivity

Product Overview

Mimosa C6x Lite Edition Wireless Radio High-Speed PtMP & PtP connectivity, C6X-LE, 1.0 Gbps IP aggregate PtP, 5150-6425 MHz Frequency range, 27 dBm Max Output Power, Passive PoE system Power Method, Mimosa N5-X Twist-on RF Connector Type, Die-cast Aluminum, Ground lug grounding, Dual-pole strap capable mounting, IP67 Outdoor ingress protection rating, 1x Gigabit Ethernet



Specifications

Overview Summary:

The Mimosa C6x Lite Edition wireless radio delivers reliable, high-speed connectivity for both point-to-point and point-to-multipoint deployments. With throughput of up to 1.0 Gbps and support for the 5.15-6.425 GHz spectrum, it is engineered for efficient broadband distribution across urban and remote environments. Its rugged IP67-rated enclosure ensures consistent outdoor performance, making it suitable for demanding South African conditions.

Designed for cost-effective scalability, this unit supports flexible antenna options and advanced interference management, allowing stable connections over varying distances. Whether you are expanding a network or building a wireless backhaul, this solution offers dependable performance. Buy now to upgrade your network infrastructure or shop now to deploy reliable wireless connectivity with ease.

Performance tier:Mid-to-High

Uses:wireless backhaul, broadband distribution, point-to-point links, point-to-multipoint networks, rural connectivity, ISP deployments

Overview:

Mimosa C6x Lite Wireless Radio for PtP and PtMP Connectivity

The Mimosa C6x Lite Edition is a cost-efficient fixed wireless solution engineered for reliable high-speed connectivity across both Point to Point and Point to Multipoint deployments. Designed to operate within the 5.15 to 6.425 GHz spectrum, it delivers up to 1.0 Gbps aggregate throughput in PtP mode and up to 750 Mbps in PtMP scenarios. With streamlined 80 MHz channel operation and strong interference mitigation, it performs consistently in both urban and remote environments. Its rugged

IP67-rated enclosure and modular antenna compatibility make it suitable for scalable broadband networks and demanding outdoor installations.

Description:

The Mimosa C6x Lite (SKU: MIM-C6X-LITE) is a versatile wireless radio built for operators who require dependable throughput without excessive cost. It supports both PtP backhaul links and PtMP client deployments, offering flexible network design options. With a durable die-cast aluminum housing, advanced spectrum management, and support for modular X-series antennas, it adapts to a wide range of deployment scenarios. This unit is particularly effective for ISPs, enterprise connectivity, and rural broadband expansion where performance, reliability, and scalability are critical.

Features:

High-Speed Wireless Performance

The C6x Lite is engineered for efficient data delivery across varying distances. It supports adaptive modulation up to 1024QAM and operates with 2x2 MIMO, ensuring optimal throughput under changing signal conditions.

- Up to 1.0 Gbps aggregate throughput in PtP deployments
- Up to 750 Mbps aggregate throughput in PtMP deployments
- 20, 40, and 80 MHz channel bandwidths with fine tuning capability
- Frequency range from 5150 MHz to 6425 MHz
- Maximum transmit power of 27 dBm

Optimized for PtMP Scalability

When deployed in PtMP mode, the C6x Lite integrates effectively with beamforming access points, enabling efficient subscriber scaling and improved spectrum reuse. Its TDMA-based communication enhances stability and reduces latency in multi-client environments.

- Supports TDMA-based PtMP communication
- Designed for integration with high-capacity access points
- Efficient noise handling and interference avoidance

Reliable Backhaul for PtP Links

For backbone and long-distance links, the C6x Lite provides consistent gigabit-class connectivity. Its interference mitigation and channel optimization capabilities allow stable operation even in congested RF conditions.

- Ideal for backhaul and building-to-building links
- Maintains link stability in high-noise environments
- Supports flexible antenna gain configurations from 8 dBi to 30 dBi

Flexible Deployment and Antenna Options

The modular design allows the use of Mimosa X-series antennas, enabling tailored performance based on range and coverage requirements. For short-range links, the integrated 8 dBi option can be used without an external antenna.

- Compatible with twist-on N5-X antennas
- Gain options: 8, 12, 16, 20, 25, and 30 dBi
- Built-in antenna usable for short-distance links

Durable Outdoor Design

Built to withstand harsh environmental conditions, the C6x Lite features a robust enclosure and reliable mounting system suitable for long-term outdoor use.

- IP67-rated weatherproof enclosure
- Die-cast aluminum housing with UV-stable coating
- Dual-pole strap mounting support
- Ground lug for proper grounding

Power and Interface Details

The device uses a passive PoE system and includes a Gigabit Ethernet interface for high-speed data transmission.

- Passive PoE power method (24V, injector sold separately)
- Maximum power consumption of 20 W
- 1x Gigabit Ethernet port

Key Technical Details

- MIMO: 2x2 with support for advanced modulation schemes
- Rx sensitivity: up to -96 dBm depending on channel width
- Operating temperature: -40 C to +55 C
- Humidity tolerance: 5 to 100 percent condensing
- Maximum operating altitude: 4420 meters

Network Management and Security

The system includes a comprehensive set of management tools and security protocols to support professional deployments.

- Web-based interface with HTML5 GUI
- SNMP v2c and v3 support
- HTTPS and Syslog integration
- VLAN support including management VLAN and per-client VLAN
- AES encryption and RADIUS authentication support

Additional Identification

This model is commonly referenced under part number MIM-C6X-LITE and manufacturer code 100-00111-01, ensuring accurate sourcing and compatibility verification.

Specifications:

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Specifications	
Product Code	MIM-C6X-LITE
PERFORMANCE	
Max Throughput	PTP: 1.0 Gbps IP aggregate
	PTMP: 750 Mbps IP aggregate UL/DL (2402 Mbps PHY)
Wireless Protocols	WiFi Interop , Auto-TDD (future release) , PTMP TDMA
Modes	PTP backhaul, PTMP client
RADIO	
MIMO & Modulation	2x2, PTMP MU-MIMO, OFDMA (future release), BPSK-1024QAM
Bandwidth	20/40/80 MHz channels, tunable to 5 MHz increments
Frequency Range	5150-6425 MHz (restricted by country of operation)
Max Output Power	27 dBm
Rx Sensitivity (MCS 0)	-90 dBm @ 80 MHz , -93 dBm @ 40 MHz , -96 dBm at 20 MHz
POWER	

ComX Computers

Product Specification Sheet

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	-40degrees C to + 55degrees 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 (future release)
QoS	WiFi Interop Mode WMM
	SRS mode supports 4 user configurable QoS levels supporting both CBW- FQ and PQ (future release)
VLAN	Q-in-Q (future release), double tagging, management VLAN, PTMP per client VLAN
Part Number	100-00111-01
Compatible PoE	502-00030
	PoE Injector 24V 30W
	SOLD SEPARATELY

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/MIM-C6X-LITE-Mimosa-C6x-Lite-Edition-Wireless-Radio-Buy-p-335804.php>

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