

Mimosa C5c DATASHEET

Overview

The Mimosa C5c is a high-performance wireless radio offering flexible deployment for both point-to-point (PTP) backhaul and point-to-multipoint (PTMP) client applications. It supports up to 700 Mbps IP throughput with advanced 2x2 MIMO OFDM technology and modulation up to 256 QAM, ensuring reliable and fast wireless links over long distances. It operates in a wide frequency range from 4900 to 6400 MHz with tunable bandwidth channels that optimize spectrum use and minimize interference. It is equipped with dual RP-SMA antenna connectors, that accommodate a variety of antennas for customized coverage. Its rugged IP55-rated enclosure and wide temperature tolerance (-40°C to +55°C) make it suitable for demanding outdoor environments. It features passive PoE power over 24-56 VDC with low power consumption, facilitating simple and efficient installations. It provides a scalable, secure, and adaptable wireless solution for enterprise, industrial, and rural fixed wireless networks.

QUICK SPEC

FIGURE 1: APPEARANCE OF C5c



TABLE 1: Quick Specs

SKU	C5c
Throughput	700 Mbps IP for point-to-point (PTP) links 500+ Mbps for point-to-multipoint (PTMP)
Ports	1 x Gigabit Ethernet (10/100/1000 BASE-T) port for data and passive PoE power input (24-56 VDC)
Dimensions (W x H x D)	65 mm (2.56") x 44 mm (1.73") x 188.4 mm (7.42")

Product Details

FIGURE 2: FRONT PANEL OF C5c





C5c Switch provides these features:

1. Dual Mode Operation (PTP/PTMP)

The C5c operates both as a point-to-point (PTP) backhaul device and as a point-to-multipoint (PTMP) client, providing flexible deployment options ranging from long-range backhaul links to client connections in dense wireless networks.

2. High Throughput Performance

It delivers a maximum throughput of 700 Mbps IP (866 Mbps PHY), powered by advanced 2x2 MIMO OFDM technology with modulation up to 256-QAM, enabling high-speed wireless links even in challenging environments.

3. Wide Frequency Range and Tunable Bandwidth

This device supports a broad frequency range from 4900 to 6400 MHz, tunable in 5 MHz increments with bandwidth options of 20, 40, or 80 MHz. This flexibility helps optimize spectrum usage and avoid interference while complying with local regulations.

4. High Output Power and Sensitivity

It has a maximum output power of 27 dBm and high sensitivity (down to -93 dBm depending on channel width), the C5c can maintain stable long-distance links with robustness against signal degradation.

5. Passive Power over Ethernet (PoE) Support

It consumes a maximum of 9.2 watts and is powered via passive PoE with voltage ranging from 24 to 56 VDC, facilitating easy and flexible installation using standard PoE injectors.

6. Rugged Compact Design

It is compact (65 mm x 44 mm x 188.4 mm), lightweight (295 grams), and suitable for outdoor use with IP55 ingress protection and operational temperatures from -40°C to +55°C, ensuring reliability in harsh environmental conditions.

7. Advanced Spectrum and Network Management

It is integrated smart spectrum management actively scans RF interference without service disruption and auto-optimizes channel and bandwidth use. It supports Mimosa's proprietary Spectrum Reuse Synchronization (SRS) technology for efficient medium access control, reducing interference and improving latency on shared wireless channels.

8. Comprehensive Security

It supports WPA2 encryption and Mimosa's 802.1x client for secure authentication and encryption, protecting wireless communication from unauthorized access.



SPECIFICATION

C5c SPECIFICATION	
Model	C5c
Dimensions (W x H x D)	65 mm (2.56") x 44 mm (1.73") x 188.4 mm (7.42")
Weight	295 grams (10.4 oz)
Mounting	Single pole strap
Max Throughput	PTP/PTMP: 700 Mbps IP (866 Mbps PHY)
Wireless Protocols	WiFi Interop Mimosa SRS
Modes	PTMP Client PTP Backhaul
MIMO & Modulation	2x2:2 MIMO OFDM up to 256 QAM
Bandwidth*	20/40/80 MHz channels tunable to 5 MHz increments for Mimosa SRS; Tunable to standard WiFi channels for WiFi Interop
Frequency Range	PTMP: 4900-6400 MHz*** PTP: 4900-6400 MHz Restricted by country of operation *new* US/FCC 5600-5650 MHz support FCC DFS (U-NII-2a, U-NII-2c) availability pending certification
Max Output Power	27 dBm
Sensitivity (MCS 0)	-87 dBm @ 80 MHz -90 dBm @ 40 MHz -93 dBm @ 20 MHz
Max Power Consumption	9.2 W
System Power Method	Passive PoE (24-56 VDC)
PoE Power Supply	Passive POE compliant, 48-56 V Power over Ethernet supply (Not Included)
Gigabit Ethernet	10/100/1000-BASE-T
Management Services	Mimosa cloud monitoring and management, SNMPv2 & Syslog legacy monitoring, HTTPS, HTML 5 based Web UI
Smart Spectrum Management	Active scan monitors/logs ongoing RF interference across channels (no service impact) Dynamic auto-optimization of channel and bandwidth use
Security	WPA2 + Mimosa 802.1x Client**
QoS	Supports 4 pre-configured QoS levels



Outdoor Ingress Protection Rating	IP55
Operating Temperature	-40°C to +55°C (-40°F to 131°F)
Operating Humidity	5 to 100% condensing
Operating Altitude	4420 m (14501') maximum
Shock & Vibration	ETS 300-019-2-4 class 4M5
RoHS Compliance	Yes
Safety	UL/EC/EN/ 60950-1 + CSA-22.2
Approvals	FCC Part 15.407 and Part 90Y, IC RSS210, CE, ETSI 301 893/302 502

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