



No Client Too Far

The Mimosa C5c is a flexible connectorized client radio solution for accommodating long range and custom antenna solutions. Incorporating unique Multi-User MIMO technology and TDMA client technology for the Mimosa GPS sync enabled network, the C5c enables the fastest speeds and is the most scalable wireless access solution available today. The C5c is ideal for professionally installed rural fixed wireless and long range applications.

Flexible Antenna Options

Connect to virtually any dual polarization antenna to custom engineer longer distance client links. The C5c has dual RP-SMA connectors for easy cabled antenna connectivity. It can be mounted to any pole via hose clamps or easily clipped onto antennas supporting compatible clip-on mounting bracket systems.

Multi-User MIMO

A key component to scaling networks efficiently is leveraging innovative new Multi-User capabilities. With MU-MIMO, multiple clients on the same access point are coordinated by the access point to simultaneously share spectrum “spatially” via unique antenna beamforming. Each client device shares spatial geographic information with its associated

Mimosa A5 device to allow coordination of the shared spectrum. This radically improves multipoint access scaling and spectral efficiency.

TDMA GPS Sync Client

The C5c offers client-side support for the Mimosa A5 multipoint GPS sync enabled TDMA protocol. This ensures each client device precisely receives and transmits under the timing control of the access point and can dynamically request upstream bandwidth. As opposed to alternative (fixed) timeslot protocols, upstream bandwidth and latencies are allocated on demand which enables significantly higher overall upstream network bandwidth utilization.

Technical Specifications

Performance

- **Max Throughput:**
500+ Mbps IP (866 Mbps PHY)
- **Wireless Protocols:**
WiFi Interop
Mimosa GPS Sync (TDMA)**
- **Modes:**
Client Mode only

Radio

- **MIMO & Modulation:**
2x2:2 MIMO OFDM up to 256-QAM
- **Bandwidth*:**
20/40/80 MHz channels tunable to 5 MHz increments for GPS Sync;
Tunable to standard WiFi channels for WiFi Interop
- **Frequency Range:**
4900 - 6200 MHz restricted by country of operation ('new' US/FCC 5600-5650 support)
- **Max Output Power:**
20 dBm
- **Sensitivity (MCS 0):**
-87 dBm @ 80 MHz
-90 dBm @ 40 MHz
-93 dBm @ 20 MHz

Power

- **Max Power Consumption:**
15W
- **System Power Method:**
802.3at compliant
- **PoE Power Supply:**
Passive PoE compliant, 48-56 V Power over Ethernet supply with IEC61000-4-5 surge protection (sold separately)

Physical

- **Dimensions:**
Depth - 26.5 mm (1.04")
Width - 65 mm (2.56")
Height - 177 mm (6.97")
- **Mounting:**
Single pole strap
- **Connector Type:**
RP-SMA (x2)

Environmental

- **Operating Temperature:**
-40°C to +55°C (-40°F to 131°F)
- **Operating Humidity:**
5 to 100% condensing
- **Operating Altitude:**
4,420 m (14,500') maximum
- **Shock & Vibration:**
ETS 300-019-2-4 class 4M5

Features

- **Gigabit Ethernet:**
10/100/1000-BASE-T
- **Multi-User MIMO**:**
CPE is MU-MIMO capable
- **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

Regulatory + Compliance

- **Approvals:**
FCC Part 15.407 and Part 90Y, IC RSS210, CE, ETSI 301 893/302 502
- **RoHS Compliance:** Yes
- **Safety:** UL/EC/EN/ 60950-1 + CSA-22.2

* 4.9 GHz uses 20 MHz channel widths
(US only, regulations vary by region)
** Enabled in future software release



C5c on Pole