



Impress Your Clients

The Mimosa C5 client device is a blazing fast and rugged endpoint client device for most deployment applications. Incorporating unique technology, the product is ideal for professionally installed suburban and rural fixed wireless applications.

Fiber Speeds to the Home

The C5 client device delivers the speed businesses and consumers need at a fraction of the cost of fiber to the premise.

TDMA GPS Sync Client

Upstream bandwidth and latencies are allocated on demand, enabling significantly higher overall upstream network bandwidth allocation.

Rugged and Affordable

Protection from harsh environments now comes at an affordable price. The C5 includes sealing gel and a unique cable protector that easily accommodates un-terminated or pre-terminated RJ-45 cable connectors.

Mounting Options Galore

As every installation is unique, the C5 client device is designed to be easily attached to specially designed, optional mounting accessories.

Compact and Powerful

Delivers incredible range with cutting-edge dual 45° slant polarization design and aperture efficiency of greater than 50%, all in the smallest design possible.

Multi-User MIMO

Multiple clients on the same access point are coordinated to simultaneously share spectrum “spatially” via unique antenna beamforming.

Accessories



Mounting Options



FlexiMount
Pole and surface mount accessory accommodates both vertical and horizontal pole mounting applications, as well as basic flat wall mounting where minimizing the distance of the C5 relative to the wall is important.



Advanced J-Mount
Accommodates most under roof eave mounting applications. With an extra axis of rotation to align the C5 and keep it level to the horizon, the J-Mount provides three degrees of rotation for elevation, azimuth and pole twist adjustment for precise aiming.

Grounding and Surge Protection



Gigabit NID
The sleek and affordable Mimosa Gigabit Network Interface Device (NID) is designed for exterior wall mounting, providing outdoor technician access, ESD protection and grounding point for C5 and C5c installation. The dust and water resistant design has a foam cable entry seal and a security fastener tie point.

Power Options



G2 Wi-Fi PoE Gateway
The G2 is a cleaner Power over Ethernet (PoE) option that seamlessly fits into subscriber's decor. With integrated Gateway, Wi-Fi and Network Health Monitoring, the wall plug eliminates multiple devices, messy extension cords and bulky home router designs.



Gigabit PoE Injector 56V Wall Plug
The Gigabit 56V passive PoE wall plug is compact and clutter-free, eliminating the typical installation mess of power strips and cords. Leave behind a professional-looking installation while reducing the chance of accidental power disconnects caused by consumers tapping into power strips.



Passive POE Compliant 48VDC
The C5 can be powered with any 3rd party POE injector supporting 48VDC passive POE.

Technical Specifications

Contents

The following items are included in the C5 Radio box:

- C5 5 GHz Radio
- Pipe Clamp
- Weatherseal Boot
- Sealing Grease
- Installation and Warranty Documentation

The C5 radio does not include a power injector or mounting hardware.

Performance

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

Radio Hardware

- **MIMO & Modulation:**
2x2:2 MIMO OFDM up to 256-QAM
- **Bandwidth*:**
20/40/80 MHz channels tunable in 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

Antenna

- **Gain:** 20 dBi
- **Beamwidth (3 dB):**
14° (azimuth and elevation)
- **Cross-Polar isolation:** >20 dB
- **Polarization:**
Dual 45° slant polarization

Physical

- **Dimensions:**
Width: 153.31 mm (6.04")
Diameter: 260.33 mm (10.25")
- **Weight:**
0.72 kg (1.59 lbs)
- **Enclosure Characteristics:**
Outdoor UV-stabilized engineered polymer
- **Wind Survivability:**

200 km/h (125 mph)

- **Wind Loading:**
39 kg @ 160 km/h (86 lbs @ 100 mph)
- **Mounting:**
Single pole strap feed point integrated into plastic back plate with integrated curvature for contact with mounting poles. Azimuth and Elevation adjustability only provided via J-Mount and FlexiMount elevation adjustment and hose clamp loosened rotation on the pole.

Power

Power supply is not included and must be ordered separately. Refer to the Accessories section of this data sheet for Mimosa-compatible power supplies.

- **Max Power Consumption:** 7W
- **Power Input:**
48 VDC passive Power over Ethernet injectors (not included)
- **System Power Method:**
Passive PoE
- **PoE Power Supply:**
Passive POE compliant, 48-56 V Power over Ethernet supply (sold separately)

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

Radio 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 128-bit AES

QoS:

- Supports 4 pre-configured QoS levels

Networking Features

As the subscriber client in the Mimosa access ecosystem, the Mimosa C5 acts as a Layer 2 bridge, and coordinates directly with the Mimosa A5 for advanced Layer 2 network isolation and networking functions. An external subscriber router/gateway such as the Mimosa G2 or a properly configured 3rd party Wi-Fi router is recommended for terminating subscriber IP services. Refer to the Mimosa A5 for complete networking details and subscriber router configuration approaches.

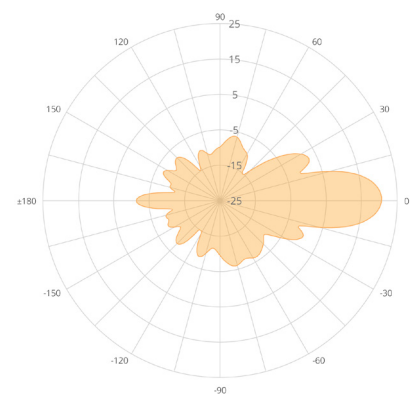
- **Networking Protocols:**
Layer 2 MAC bridging. VLAN tagging features are only supported via the Mimosa A5 or external subscriber router. Routing features are not included directly in the C5.
- **Management Services:**
Mimosa cloud monitoring, SNMPv2 monitoring, Syslog, and Web user interface
- **QoS:**
Supports 4 pre-configured QoS levels

Regulatory and 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



C5 Azimuth Polar Plot

mimosa

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