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Impress Your Clients
C5 Client Radio

The Mimosa C5 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 unterminated 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.

Technical Specifications

Contents
Included in the C5 radio box:

- C5 5 GHz Radio
- Pipe Clamp
- Weatherseal Boot
- Dielectric 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. 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.

- **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 PSK & Enterprise 802.1x; Radius
  provisioning, COA, DM (from A5); 128-bit
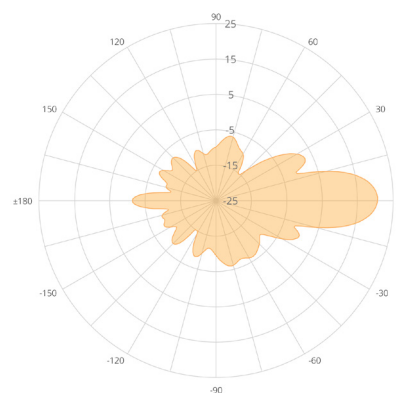 AES with hardware acceleration

- **VLANs:**
  Per subscriber VLAN; Q-in-Q, triple
  tagging; Management VLAN
- **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 UI
- **QoS:**
  Supports 4 pre-configured QoS levels

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

C5 Azimuth Polar Plot

Mimosa Networks is a leading provider of 5G Fixed wireless solutions creating new competition in the industry to close the connectivity gap. Mimosa access, backhaul, and client solutions enable broadband service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa's technology allows unprecedented levels of efficiency, enabling scarce spectrum to be concurrently shared across an entire network. Founded in 2012, Mimosa is VC-funded and deployed in over 130 countries worldwide.

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