No Client Too Far

C5c Point-to-Point Backhaul & Point-to-Multipoint Client Radio

4.9–6.4 GHz (PTP) & 4.9–6.2 GHz (PTMP)

The Mimosa C5c is a flexible connectorized client radio solution for accommodating short and long range PTP and PTMP, as well as custom antenna solutions. Incorporating unique support for Mimosa's SRS technology, 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 for point-to-point backhaul links.

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.

PTP Backhaul Links

The C5c provides extreme price/performance for PTP backhaul links in a small form factor. Wide frequency range support allows avoidance of crowded 5 GHz spectrum bands. Where regulations allow, long distances are enabled with high system power and flexible antenna options.

SRS Client

The C5c offers client-side support for Mimosa's proprietary Spectrum Reuse Synchronization (SRS) technology. 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:**
PTMP: 500+ Mbps IP (866 Mbps PHY)
PTP: 700+ Mbps IP (866 Mbps PHY)
· **Wireless Protocols:**
WiFi Interop
Mimosa SRS
· **Modes:**
PTMP Client
PTP Backhaul

Radio

· **MIMO and 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: 4900–6200 MHz
PTP: 4900–6400 MHz
Restricted by country of operation
'new' US/FCC 5600-5650 MHz support
Max Output Power:
27 dBm
· **Sensitivity (MCS0):**
-87 dBm @ 80 MHz
-90 dBm @ 40 MHz
-93 dBm @ 20 MHz

Power

· **Max Power Consumption:**
12.9 W
· **System Power Method:**
Passive PoE (24-56VDC)
· **PoE Power Supply:**
Passive PoE compliant, 48-56 V Power
over Ethernet supply (included)

Physical

· **Dimensions:**
Depth: 44.0 mm (1.73")
Width: 65 mm (2.56")
Height: 188.4 mm (7.42")
· **Weight:** 295 gr (10.4 ounces)
· **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
· **Outdoor Ingress Protection Rating:**
IP55
· **Operating Altitude:**
4,420 m (14,501') maximum
· **Shock and Vibration:**
ETS 300-019-2-4 class 4M5

Features

· **Gigabit Ethernet:**
10/100/1000-BASE-T
· **Management Services:**
Mimosa cloud monitoring
and management
SNMPv2 & Syslog legacy monitoring
HTTPS
HTML5 based web UI
· **Smart Spectrum Management:**
Active scan monitors/logs ongoing RF
interference across channels with 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

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)

C5c on Pole
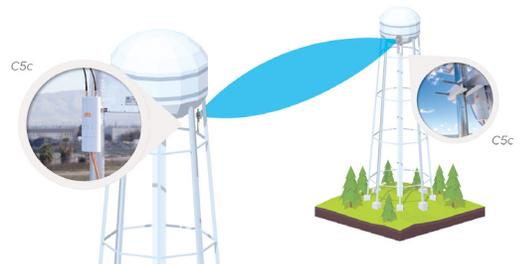
Point-to-Point (Backhaul)
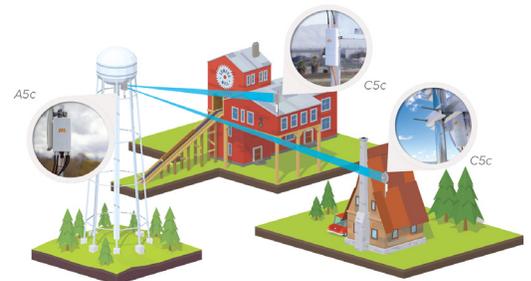
Point-to-Multipoint

Mimosa Networks, a division of Airspan, is the global technology leader in wireless broadband solutions, enabling service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa Networks was acquired in 2018 by Airspan, the leading vendor of 4G/5G LTE small cells and backhaul technologies.

mimosa by Airspan