

## Rugged Performance

### The C5x PTP Backhaul Radio

5.470–5.725 GHz

5.725–5.850 GHz

#### Key Features

- PTP Operation up to 700 Mbps
- 5.470–5.725 and 5.725–5.850 GHz Frequency Range
- Best-in-Class Noise Immunity
- Ultra Rugged
- Low-Power Consumption
- Ultra Reliable



The durable C5x provides frequency operation from 5.470–5.725 and 5.725–5.850 GHz, with best-in-class noise immunity. Delivering the ultimate in flexibility and value, the C5x is the go-to solution for 5 GHz deployments.

#### Ultra Rugged

The C5x, with its die-cast aluminum metal enclosure, dual pole mounts, is custom-engineered to reduce noise, withstand the outdoor elements and extreme weather.

#### Key Applications

- Broadband service providers
- Public safety and first responders
- Enterprise and campus building interconnecting
- Multipoint distribution for WiFi, video security and Smart Cities

## Technical Specifications

### Performance

- **Max Throughput:**  
PTP: 700 Mbps IP (866 PHY)
- **Wireless Protocols:** Mimosa SRS; WiFi Interop
- **Modes:** 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 and WiFi Interop mode
- **Frequency Range:**  
5470–5725 MHz;  
5725–5850 MHz
- **Max EIRP:** 30 dBm (includes antenna gain)
- **Sensitivity (MCS0):**  
-87 dBm @ 80 MHz  
-90 dBm @ 40 MHz  
-93 dBm @ 20 MHz

### Power

- **Max Power Consumption:** 9.2 W average; 12.9 W max
- **System Power Method:** Passive POE (24-56 VDC)
- **PoE Power Supply:** Passive POE compliant, 24-56 V Power over Ethernet supply (not included)

### Physical

- **Dimensions:**  
Height: 175 mm (6.89")  
Width: 70 mm (2.75")  
Depth: 61 mm (2.40")
- **Weight:** 0.37 kg (0.82 lbs)
- **RF Connector Type:** Mimosa N5-X twist-on
- **Enclosure Characteristics:**  
Outdoor, die-cast aluminum, UV stabilized paint
- **Mounting:** Dual attached pole mount straps
- **Grounding:** Ground lug
- **Wind Survivability:** 200 km/h (125 mph)

### Regulatory and Compliance

- **Approvals:** FCC Part 15.405 and Part 90Y CE/ETSI
- **EMI/Safety:**  
FCC Part 15 Class B  
EN 55022 Class B  
IEC61000  
UL/IEC 60950-2  
IEC/EN 60905-1
- **WEEE/ROHS Compliance:** Yes

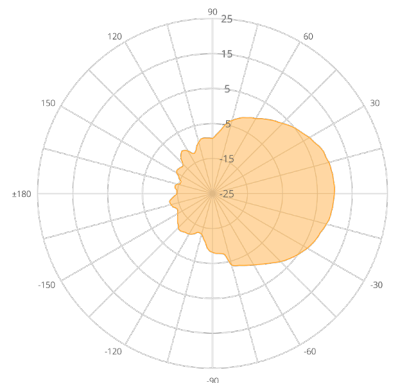
### Environmental

- **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:** 4,420 m (14,500') max
- **Shock & 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 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 and 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

C5x 8 dBi Polar Plot



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.