The Mimosa B5c is the industry’s fastest connectorized unlicensed and public safety connectivity solution, allowing virtually any antenna to be used for long distance point-to-point backhaul. The B5c is ideal for long-range relay and tower links, and custom engineered collocation. It is also suitable for licensed Public Safety operation on the 4.9 GHz spectrum.

**Ultra Rugged**
Carrier-grade IP67 design allows the B5c to withstand the harshest of environmental conditions.

**Double Reliability**
Tames unlicensed spectrum interference via custom engineered multi-channel and auto-everything technology. As good as two smart links in one radio.

**Incredibly Fast and Flexible**
Recognized as the fastest unlicensed backhaul in the industry. Extensive bandwidth control options, low latency, reserved bandwidth and GPS sync mode mean peak performance.

**Easily Add New Links**
The B5c is spectrum friendly. Unique high-precision GPS sync technology reuses the same channel network wide. Keep adding more capacity to more sites and waste less spectrum.

**Monitor with Ease**
Assessing link health and identifying potential problems has never been easier. Links are instantly monitored by our Mimosa Cloud service with rich data collection and analysis.
Technical Specifications

Performance
- **Max Throughput:**
  Up to 1.5 Gbps IP aggregate UL/DL (1.7 Gbps PHY)
- **Low Latency:**
  <1 ms in Auto Mode
- **Wireless Protocols:**
  TDMA, TDMA-FD

Radio
- **MIMO & Modulation:**
  4x4 MIMO OFDM up to 256QAM
- **Bandwidth**:?
  Single or Dual 20/40/80 MHz channels
- **Frequency Range:**
  4900–6200 MHz restricted by country of operation (new US/FCC 5600–5650 support)
- **Max Output Power:**
  30 dBm (2-stream)
  27 dBm (4-stream)
- **Sensitivity (MCS 0):**
  -97 dBm @ 80 MHz
  -90 dBm @ 40 MHz
  -93 dBm @ 20 MHz

Power
- **Max Power Consumption:**
  20 W
- **System Power Method:**
  48 V DC 802.3 at compliant power injectors
- **System Lightning & ESD Protection:**
  6 kV
- **PoE Power Supply:**
  Passive POE compliant, 48-56 V Power over Ethernet supply with IEC61000-4-5 surge protection

Physical
- **Dimensions:**
  Height - 267 mm (10.5")
  Width - 158 mm (6.2")
  Depth - 74 mm (3")
- **Weight:**
  1.6 kg (3.5 lbs)
- **Enclosure Characteristics:**
  Outdoor UV stabilized plastic
  Aluminum mounting panel
- **Wind Survivability:**
  200 km/h (125 mph)
- **Wind Loading:**
  9.89 kg @ 160 km/h (21.8 lbs @ 100 mph)
- **Mounting:**
  Dual standard pole straps for 30 mm (1.18") to 90 mm (3.54") OD pipes
- **Connector Type:**
  Female Type N (x2), intended for use with dual polarization antenna

Environmental
- **Outdoor Ingress Protection Rating:**
  IP67
- **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
- **Dual Link Operation:**
  2 independent dual-stream radios operating on non-contiguous frequencies; Automatic load balancing of traffic across 4 total MIMO streams with individual stream encoding up to 256 QAM
- **Management Services:**
  Mimosa cloud monitoring and management; SNMPv2 & Syslog legacy monitoring; HTTPS; HTML 5 based Web UI; 2.4 GHz 802.11b/g/n radio for local management access
- **Smart Antenna Alignment:**
  Hands-free dedicated 2.4 GHz Wi-Fi management radio alignment tool
- **Smart Spectrum Management:**
  Active scan monitors/logs ongoing RF interference across channels (no service impact); Dynamic auto-optimization of channel and bandwidth use
- **Security:**
  128-bit AES PSK with hardware acceleration
- **QoS:**
  Supports 4 pre-configured QoS levels
- **GPS Location:**
  GNSS-1 (GPS + GLONASS)
- **Collocation Synchronization:**
  1PPS GPS TX/RX synchronization for collocated co-channel radios
  Adjustable up/downstream bandwidth ratio

Regulatory + Compliance
- **Approvals:**
  FCC Part 15.407 and Part 90Y, IC RSS210 and RSS111, 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 only (US only, regulations vary by region)