

iBridge C5x a versatile, modular 5 GHz radio

Supports either PTMP or PTP operation modes

MODULAR & FLEXIBLE ANTENNA OPTIONS

Single radio supports the broadest range of antenna gains from the native 8 dBi to field-installable 12, 16, 20 and 25 dBi modular antennas.

FLEXIBLE OPERATION MODES

A single radio supports either PTMP or PTP operation modes.

EXTENDED FREQUENCY 4.9-6.4 GHz

Escape noise in the congested 5.15-5.85 GHz band by providing an additional 800 MHz of spectrum, including the 4.9 GHz Public Safety band.

BEST-IN-CLASS NOISE IMMUNITY

Leading front-to-back (34 dB) and front-to-side (50 dB) sidelobe rejection protects the C5x from unwanted interference.

LOW-POWER CONSUMPTION

Typical energy consumption is sub-10W with a maximum of 12.9W.

HIGH PERFORMANCE

Can achieve 700 Mbps of PTP IP throughput and 500 Mbps of PTMP IP throughput.

ULTRA RELIABLE

Based on field proven software and a 3rd generation ethernet chip, the C5x provides dependable connectivity.



iBridge C5x

The iBridge C5x is the industry's most versatile, integrated radio with modular twist-on antenna options.

The ultra-rugged solution provides extended frequency operation from 4.9-6.4 GHz, with best in class noise immunity. Delivering the ultimate in flexibility and cost efficiency, the iBridge C5x is the go-to PTP or PTMP solution for 5 GHz deployments.

Performance

- **Max Throughput:** PTP: 700 Mbps IP (866 PHY)
PTMP: 500 Mbps IP (866 PHY)
- **Wireless Protocols:** Airspan propriety SRS; WiFi Interop
- **Modes:** PTMP Client

Radio

- **MIMO and Modulation:** 2x2:2 MIMO OFDM, up to 256 QAM
- **Bandwidth:** 20/40/80 MHz channels, tunable to 5 MHz increments for SRS and WiFi Interop mode
- **Frequency Range:** PTP/PTMP: 4900–6400 MHz (restricted by country of operation)
- **Max Output Power:** 27 dBm
- **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:** 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)

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:** 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

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

