iBridge C5c Backhaul and Client Radio
FWA and Long Range applications for PTP Backhaul

PRICE AND PERFORMANCE
Low cost 700+ Mbps (PTP) and 500+ Mbps (PTMP) radio

LOW LATENCY
Low latency, 1 ms, in PTP mode

SPECTRUM REUSE SYNC
Supports Spectrum Reuse Sync (SRS) across the network

RELIABLE
Low packet loss, less than 0.001%

MOUNTING
Snap-in mounts for popular dishes

RUGGED AND BUILT TO LAST
Cast metal housing, IP55 rated

NOISE RESISTANT
Automated gain adjustment (AGC) to combat residential noise

FOLIAGE FIGHTING
Improved link budgets to handle foliage in MicroPoPs (short-range PTMP)

WIDE CHANNELS
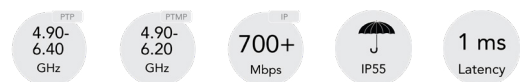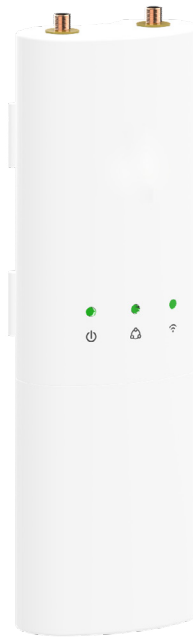80 MHz channel width delivers 500+ Mbps (IP)

WIDE FREQUENCY RANGE
Frequency range 4.90 to 6.40 GHz for PTP, 4.90 to 6.20 GHz for PTMP

LONG-RANGE LINKS
Long-distance support; Defined by the gain of the antenna used

OUTPUT POWER
High-conducted power, 27 dBm, for long distance links

PTP 4.90-6.40 GHz	PTMP 4.90-6.20 GHz	IP 700+ Mbps	IP55	1 ms Latency

iBridge C5c

Designed specifically to connect with iBridge A5c access points in GigaPoP and MicroPoP architectures (short and long-range PTMP), the compact, connectorized iBridge C5c enables massive scaling of subscribers and capacity.

In addition to these client connections, the iBridge C5c can also be used in backhaul (PTP) applications for one third of the cost of existing solutions.

Performance

- **Max Throughput:** PTMP: 500+ Mbps IP (866 Mbps PHY,) PTP: 700+ Mbps IP (866 Mbps PHY)
- **Wireless Protocols:** WiFi Interop, Airspan propriety 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 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)

* 4.9 GHz uses 20 MHz channel widths (US only, regulations vary by region)

** Enabled in future software release

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 (14,500') maximum
- **Shock & Vibration:** ETS 300-019-2-4 class 4M5 Features

Features

- **Gigabit Ethernet:** 10/100/1000-Base-T
- **Multi-User MIMO**:** CPE is MU-MIMO capable
- **Management Services:** 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