

## iBridge A5 Delivering Cutting Edge PtMP access Amazing access all around

### UNPARALLELED ACCESS

Access point capacity of 1+ Gbps (IP) can deliver the speeds users need at a fraction of the cost of delivering fiber

### SMART QUAD-PANEL MIMO

First directional MIMO technology with four 90 degree panels

### SPECTRUM REUSE SYNC

Smartly reuse channels across the network, leveraging GPS technology

### BEAUTIFULLY COMPACT

Discrete form factor for suburban rooftop and urban installations

### EASY SET UP

Simple configuration and management from a smartphone; Quickly install client devices with auto-unlocking and provisioning

### ULTRA RUGGED

Carrier-grade IP67 design to withstand the harshest conditions

### NOISE RESISTANT

Combat noise with advanced Automatic Gain Control (AGC)

### WIDE FREQUENCY SUPPORT

4.90 to 6.20 GHz frequency range in SRS mode, where allowed by country regulations

### SHORT LINKS

Industry-leading performance for high-density, short-range multipoint applications

### OUTPUT POWER

30 dBm



### iBridge A5

The iBridge A5 access point delivers cutting-edge multipoint technology for service providers to affordably deliver gigabit wireless broadband. Designed for high-density, short-range applications, the iBridge A5 features advanced interference reduction techniques to enable service in underserved markets.

## Performance

- **Max Throughput:** Up to 1.0 Gbps IP (1.7 Gbps PHY)
- **Client Capacity:** 100 clients
- **Wireless Protocols:** WiFi Interop, GPS Sync (TDMA)\*\*

## Radio

- **MIMO and Modulation:** 4x4:4 MIMO OFDM up to 256-QAM
- **Bandwidth\*:** 20/40/80 MHz channels tunable in 5 MHz increments for GPS Sync; Tunable to standard WiFi channels for WiFi Interop
- **Frequency Range:** 4900 – 6200 MHz restricted by country of operation('new' US/FCC 5600-5650 support)
- **Max Output Power:** 30 dBm
- **Sensitivity (MCS0):** -87 dBm @ 80 MHz; -90 dBm @ 40 MHz; -93 dBm @ 20 MHz

## Antenna

- **Gain:** A5-18: 18 dBi; A5-14: 14 dBi
- **Beamwidth ( 3 dB ):** 70° azimuth
- **Electrical Downtilt:** A5-18: 4°; A5-14: none
- **Front-to-Back Ratio:** >30 dB
- **Cross-Polar Isolation:** >20 dB or greater
- **Polarization:** Circular, 4 alternating panels

## Physical

- **Dimensions:** 18 dBi: 668 mm (26.29") height  
14 dBi: 314 mm (12.36") height  
142.44 mm (5.61") width
- **Weight:** 18 dBi: 2.73 kg (6 lbs)  
14 dBi: 1.75 kg (3.85 lbs)
- **Enclosure Characteristics:** Outdoor UV-stabilized engineered polymer
- **Wind Survivability:** 200 km/h (125 mph)
- **Wind Loading:** 18 dBi: 16.03 kg @ 160 km/h  
35.34 lbs @ 100 mph, 14 dBi: 7.72 kg @ 160 km/h  
17.03 lbs @ 100 mph
- **Mounting:** Dual pole strap feed points integrated into metal base with integrated curvature for contact with mounting poles

## Power

- **Max Power Consumption:** 25W
- **System Power Method:** 802.3 at compliant
- **System Lightning & ESD Protection:** 6 kV
- **PoE Power Supply:** 802.3at and Passive POE compliant, 48-56 V Power over Ethernet supply with IEC61000-4-5 surge protection

## 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

## Features

- **Gigabit Ethernet:** 10/100/1000-Base-T
- **Multi-User MIMO\*\*:** Device leverages beamforming to transmit to multiple clients simultaneously
- **Synchronization\*\*:** GPS+GLONASS allows for network-wide sync and interference avoidance
- **Collocation\*\*:** 1PPS GPS Tx/Rx synchronization for same tower collocation and channel reuse
- **Network Processing:** Advanced AP control for capacity and subscriber management
- **Management Services:** Option to use Private or Public Cloud monitoring and management - SNMPv2/v3; Syslog; HTTPS; SFTP; Local HTML 5 based Web UI or optional application for configuration and software upgrade
- **Smart Spectrum Management:** Active scan monitors/ logs ongoing RF interference across channels (no service impact); Dynamic auto-optimization of channel and bandwidth use
- **Security:** WPA2 PSK & Enterprise 802.1x; Radius provisioning, COA, DM; 128-bit AES with hardware acceleration
- **VLANs:** Per subscriber VLAN; Q-in-Q, triple tagging; Management VLAN
- **QoS:** Supports 4 pre-configured QoS levels
- **GPS Location:** GNSS1 (GPS + GLONASS)
- **Traffic Shaping:** Per CPE UL/DL commit and maximum rate shaping
- **Access Control List:** Permit, deny, and remark layer 2 and layer 3 traffic flows

## Regulatory + Compliance

- **Approvals:** FCC Part 15.407 and Part 90Y, IC RSS210 and RSS111, CE, ETSI 301 893/302 502
- **RoHS Compliance:** Yes
- **Safety:** L/EC/EN/ 60950-1 + CSA-22.2

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

\*\* Enabled in future software release

