



Product Overview

Altai BX600-X is a base station that provides up to 250 Mbps net aggregate throughput while delivering access connectivity for up to 16 subscriber units. It operates in 4.9 to 6 GHz bands.

The unit has two N-type connectors for external antenna.

Product Highlights

- » Up to 250 Mbps net aggregated throughput
- » Long range – up to 40 km
- » Supports up to 16 subscriber units
- » Guaranteed service level agreement (SLA) per subscriber unit
- » Exceptional low and constant latency
- » Single radio supporting multiple bands
- » Advanced MIMO, OFDM, and diversity technologies
- » Robust and reliable operation in harsh conditions, extreme temperatures, and non-line-of-sight scenarios
- » Ease of operation and maintenance

Architecture

- Outdoor unit with connectors for external antenna (2 x N-type)

Network Interface

- Data Interface 1 x 1 GE RJ45 Port with PoE PD
- PoE and ODU Interfaces Outdoor CAT-5e; Maximum Cable Length: 75m for 1000Base-T

Radio

- Wireless Topology PtMP Base Station
- Maximum Capacity 250 Mbps Net Aggregate Throughput
- Maximum Subscriber Units Up to 16
- Range Up to 40 km
- Frequency 4900 MHz – 6070 MHz *
- Channel Bandwidth Configurable: 10, 20, 40 MHz *
- Dynamic Bandwidth Selection 20/40 MHz
- Modulation MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256 QAM)
- Error Correction FEC k = 1/2, 2/3, 3/4, 5/6
- Adaptive Modulation/Coding Supported
- Duplex Technology TDD
- DFS Supported *
- Smart Bandwidth Mgmt. Supported
- Diversity Supported
- Antenna Modes MIMO 2x2, Diversity, Adaptive MIMO/Diversity
- End-to-End Latency Typical: 3.5 ms @ 2 SUs; 20 ms @ 16 SUs
- Maximum TX Power 26 dBm *
- Encryption AES128
- TDD Intra-Site Synchronization Supported via Built-in GPS Receiver
- TDD Inter-Site Synchronization Supported via Built-in GPS Receiver
- Uplink/Downlink Allocation Configurable: Symmetric or Asymmetric

Antenna

- External Antenna
- Antenna Connector 2 x N-Female

Networking

- Sub Convergence Layer Layer 2, Bridging Learning of 5K MAC Addresses
- QoS Packet Classification to 4 Priority Queues according to 802.1P or Diffserv
- VLAN Support 802.1Q, QinQ, 4094 VLANs
- MTU Size Up to 9216 bytes
- ODU Management IPv4/IPv6 Dual-Stack; SNMPv1, SNMPv3; HTTP/HTTPS using Web Browser
- Option 82 Supported
- RADIUS Authorization Supported
- RADIUS User Authentication Supported
- Syslog Supported

Physical Specification

- Dimension 195 (w) x 125 (h) x 40 (d) mm
- Weight 0.5 kg

Power Supply

- Power Consumption < 13W
- Power Feeding Power provided over ODU-IDU Cable

Environmental Specification

- Operating Temperature -35 °C to 60 °C
- Humidity 100% Condensing
- Enclosure Protection IP67 per EN/IEC 60529, NEMA Type 4 Enclosure

Regulatory Compliance

Radio

- USA FCC 47CFR Part 15.407
- EU ETSI EN 301 893; ETSI 302 502

Safety

- USA UL/CSA-C22.2 62368-1, UL/CSA-C22.2 60950-22
- EU EN/IEC 62368-1, EN/IEC 60950-22

EMC

- USA FCC 47CFR Part 15 Subpart B, Class B
- EU ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17

Product Ordering Information

BX600-X (Part No.: AT-5LB5-9254)

- BX600-S PtMP Base Station
- Mounting Kit
- IP67 Cable Gland

Optional Accessories

- PoE Injector with DC Input 10VDC – 60VDC
- PoE Injector with AC Input 100VAC – 240VAC

Contact Us

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BX600X-PB-20220607

** May be limited by regulation*

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