



## Product Overview

Altai BX260-N is a subscriber unit with an integrated 22 dBi antenna that delivers up to 250 Mbps net aggregate throughput. It supports guaranteed service level agreement (SLA) or best effort service level.

The unit can also be used in a PtP configuration.

The BX260-N supports 4.9 to 6 GHz and complies with Universal & UBR regulations.

## Product Highlights

- » Up to 250 Mbps net aggregated throughput
- » Long range – up to 40 km
- » Guaranteed service level agreement based on CIR or best effort service level
- » 22 dBi integrated antenna
- » Low and constant latency
- » Advanced MIMO, OFDM, and antenna diversity
- » Robust and reliable operation in harsh environmental conditions including obstructed line-of-sight scenarios
- » IP67
- » Simplified installation using a Smartphone app.

## Architecture

- Outdoor unit with integrated antenna

## 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 Subscriber Unit
- Maximum Capacity 250 Mbps Net Aggregate Throughput; Upgradable to 500 Mbps with License Key
- Range Up to 40 km
- Frequency 4900 MHz – 6090 MHz \*
- Channel Bandwidth Configurable: 10, 20, 40, 80 MHz \*
- Dynamic Bandwidth Selection 20/40/80 MHz
- Modulation 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 \*
- Automatic Channel Selection Supported upon Power Up
- Diversity Supported
- Maximum TX Power 29 dBm \*
- Encryption AES128
- Uplink/Downlink Allocation Configurable: Symmetric or Asymmetric

## Antenna

- Integrated Antenna
- Gain 22 dBi
- VSWR 2.0: 1
- 3 dB Azimuth Beamwidth 10° (Typical)
- Polarization Dual Linear (Vertical and Horizontal)
- Sidelobes Level -12 dB (Typical)
- Cross Polarization -25 dB (Typical)
- F/B Ratio 25 dB
- Port-to-Port Isolation 30 dB (Typical)
- Lightning Protection DC Grounded

## Networking

- Sub Convergence Layer Layer 2, Hub Mode
- QoS Packet Classification to 4 Priority Queues according to 802.1P or Diffserv
- VLAN Support 802.1Q, QinQ, 4094 VLANs
- ODU Management IPv4/IPv6 Dual-Stack; SNMPv1, SNMPv3; HTTP/HTTPS using Web Browser
- 802.1x Supported
- Option 82 Supported
- Non-PPPoE Filtering Supported
- DHCP Filtering Supported
- IGMP Snooping Supported
- Nomadic Subscribers Supported
- RADIUS Authorization Supported
- RADIUS User Authentication Supported
- Syslog Supported

## Physical Specification

- Dimension 325 (w) x 325 (h) x 64 (d) mm
- Weight 2 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

## 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

### BX260-N (Part No.: AT-5H01-9P54)

- BX260-N PtMP Subscriber Unit
- Mounting Kit
- IP67 Cable Gland

### Optional Accessories

- PoE Injector with AC Input 100VAC – 240VAC

### Contact Us

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\* May be limited by regulation

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