





Product Overview

Altai BX270-N is an attractively priced 500 Mbps outdoor subscriber unit with an integrated antenna, that operates in the 5 GHz band. It is interoperable with all the Altai 5 GHz PtMP base stations.

The BX270-N provides four level of QoS and ensures a reliable link in congested spectrum and tough path conditions by using Altai's field proven air interface. Its channel bandwidth can be dynamically selected, either per transmission or per reception direction, hence guaranteeing maximum link capacity.

The subscriber unit is designed to provide impressive packet switching power to guarantee capacity in short packets traffic.

Highly durable, the BX270-N complies with the IP67 standard to reduce truck roll costs.

Product Highlights

- » Up to 500 Mbps subscriber unit
- » 22 dBi integrated antenna
- » 4.9 6.0 GHz
- » Up to 40 km
- » Best-effort service level
- » Interoperable with all Altai 5 GHz PtMP base stations
- » Highly durable IP67



Altai BX270-N PtMP Subscriber Unit

Cost-Effective Outdoor PtMP Subscriber Unit

Architecture

· Outdoor unit with integrated antenna

Network Interface

 Data Interface PoE and ODU Interfaces

1 x 1 GF R I45 Port with PoF PD Outdoor CAT-5e; Maximum Cable Lenath: 75m for 1000Base-T

Radio

 Wireless Topology Maximum Capacity

• Range Frequency Channel Bandwidth

Dynamic Bandwidth Selection

Modulation

• Error Correction

Adaptive Modulation/Codina

Duplex Technology

DES

Antenna Modes

• Dynamic Bandwidth Mgmt.

Maximum TX Power Encryption

PtMP Subscriber Unit 500 Mbps Net Aggregate Throughput (Up to 250 Mbps per

Direction) Up to 40 km

4900 MHz - 6090 MHz *

Configurable: 10, 20, 40, 80 MHz *

20/40/80 MHz

OFDM (BPSK/QPSK/16QAM/ 64QAM/256 QAM)

FEC k = 1/2, 2/3, 3/4, 5/6

Supported TDD

Supported *

MIMO 2x2, Diversity, Adaptive

MIMO/Diversity Best Effort Service Level

26 dBm *

AFS128

Uplink/Downlink Allocation Configurable: Symmetric or

Asymmetric

Antenna

Integrated Antenna

22 dBi Gain **VSWR** 2.0: 1 3 dB Azimuth Beamwidth 10° (Typical) 3 dB Elevation Beamwidth 10° (Typical) Dual Linear (Vertical and

Polarization

Horizontal) Sidelobes Level -12 dB (Typical) Cross Polarization -25 dB (Typical) F/B Ratio 25 dB 30 dB (Typical) Port-to-Port Isolation • Lightning Protection DC Grounded

Networking

• Sub Convergence Layer

Packet Classification to 4 Priority QoS Queues according to 802.1P or

802.1Q, QinQ, 4094 VLANs VLAN Support IPv4/IPv6 Dual-Stack; SNMPv1, ODU Management SNMPv3; HTTP/HTTPS using Web

Browser

Layer 2, Hub Mode

Supported • 802.1x Option 82 Supported DHCP Filtering Supported IGMP Snooping Supported PPPoE Filtering Supported RADIUS Authorization Supported **RADIUS User Authentication** Supported Syslog Supported

Physical Specification

325 (w) x 325 (h) x 64 (d) mm Dimension

 Weight 1.22 kg

Power Supply

 Power Consumption < 13W

Power provided over ODU-IDU Cable Power Feeding

 PoE Input Voltage Range 24 - 56VDC

Environmental Specification

-35 °C to 60 °C • Operating Temperature 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

UL/CSA-C22.2 62368-1, UL/CSA-C22.2 USA

60950-22

EN/IEC 62368-1, EN/IEC 60950-22 EU

EMC

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

ETSI 301 489-17

Product Ordering Information

BX270-N (Part No.: AT-5HC5-9A50)

- BX270-N PtMP Subscriber Unit
- Mounting Kit
- IP67 Cable Gland

Optional Accessories

- PoE Injector with DC Input 24VDC 57VDC
- PoE Injector with AC Input 100VAC 240VAC

Contact Us

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^{*} May be limited by regulation