Product Overview

Altai BX270-X is a 500 Mbps outdoor connectorized subscriber unit with N-type connectors for external antenna connection, that operates in the 5 GHz band. It is interoperable with all the Altai 5 GHz PtMP base stations.

The BX270-X is ideal for residential customers or non-SLA applications. The unit provides four level 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 PtMP subscriber unit
» 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

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 Subscriber Unit
Maximum Capacity	500 Mbps Net Aggregate Throughput (Up to 250 Mbps per Direction)
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 *
Antenna Modes	MIMO 2x2, Diversity, Adaptive MIMO/Diversity
Dynamic Bandwidth Mgmt.	Best Effort Service Level
Maximum TX Power	26 dBm *
Encryption	AES128
TDD Synchronization	HSS Client Mode (Built-in GPS Receiver, HSS over Ethernet)
Uplink/Downlink Allocation	Configurable: Symmetric or Asymmetric

Antenna

External Antenna	
Antenna Connector	2 x N-Female

Networking

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
DHCP Filtering	Supported
IGMP Snooping	Supported
PPPoE Filtering	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
PoE Input Voltage Range	24 - 56VDC

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

BX270-X (Part No.: AT-5CC5-9A50)

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

Optional Accessories
- PoE Injector with DC Input 24VDC – 57VDC

Contact Us
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BX270X-PB-20220606

* May be limited by regulation
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