ATLAS SERIES LP-A5160AI Broadband wireless access 5GHz ISM Band Subscriber with 5/10/20 MHz Fractional Bandwidth

LPA5160AI_SS_ENB01W

Applications

- Long distances PtP or PtmP Bridge (CPE).

- Monitoring of remote systems.

- Cost-effective alternative to wired network enviroment.

- Redundant link between buildings.

- Home automation & building control.

- Wireless repeater.

- Dedicated ISP connections for high-reliability subscribers.

- Enterprises or institutions with LAN and PBX extension.

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High-powered with the panel antenna-integrated design, The ATLAS SERIES from Lanpro is a cost-effective point-to-point/point-to-multipoint (CPE) solution for unlicensed wireless deployment both for backhaul and "last mile".

The LP-A5160AI working at 5.1~6.1 GHz licensed band, allows system operators to deploy the applications with the widest frequency range. The fractional bandwidth control feature allows more non-overlapping channels in practical deployment, providing better flexibility in deploying the network.

High output power OFDM technology gives the ability for near-line of sight deployment, and with the regatta mode, you can expect an increase of 28 to 35% above 54 Mbps.

The LP-A5160AI utilizes Time Division Duplex Technology, which allows operation on a single channel. The Ethernet products are primarily designed to provide standard Ethernet interface in a wireless link between distant sites.

www.lanpro.com

A   Product Highlights

• Effective spectrum utility

The LP-A5160AI uses advanced technology to narrow the channel into smaller bandwidths than other wireless radios. There are software selectable channel bandwidths of 5, 10 and 20 MHz.

• Regatta mode increases performance up to 35%

Unique technology called Regatta mode can enhance the performance of the radio up to 25 ~ 35%

• Versatile Quality of Service / Time-Division Multiplexing Technique

TDM technology can avoids packet collision and send the packets in a more efficient and stable manner, improving voice quality and data transmission. The download speed of the CPE radio can be set in fractions (nx64 Kbps).

• High output power OFDM technology and integrated antenna

Integrated panel antenna with the high output power OFDM technology provides best performance and lowest price at the same time, all that supporting the LP-A5160AI as the most cost-effective solution in the WLAN outdoor Bridge market.

• Security

WEP 64/ 128 /152 bits, WPA-PSK, WPA-TKIP and WPA2 (AES-128 bits) encryption, 802.1x Authentication (EAP), MAC access control, disable broadcast SSID, and client isolation build the highest security mechanism to prevent the malicious attacks from the Internet.

• Antenna alignment (Audible antenna alignment for optional)

The site survey function provides the RSSI (signal strength) info to indicate the antenna alignment status. The customer can order audible antenna alignment model for aligning the antenna by the headphones of your mp3 player, quite easy and simple.

B   Specifications

RADIO	
Operating Channel	5.150 GHz ~ 6.060 GHz
Channel Bandwidth	Software selectable channel bandwidths of 5, 10 and 20 MHz
Data Bandwidth	Up to 5 Mbps data throughput using in a 5 MHz channel
Output Power	44 dBm (±2dB) @ 54 Mbps 45 dBm (±1dB) @ 48 Mpbs 46 dBm (±1dB) @ 36 Mbps 46 dBm (±1db) @ 6~24 Mbps
Receive Sensitivity (BER 1E10-6) in a 5 MHz channel	-75 dBm (±2dB) @ QAM-64 -82 dBm (±2dB) @ QAM-16 -86 dBm (±2dB) @ QPSK -90 dBm (±2dB) @ BPSK
Frequency Stability	±10 ppm
Modulation	OFDM
Range	Up to 30 Km.

INTERFACES	
Ethernet	IEEE 802.3 (10Base-T) and IEEE 802.3u (100Base-Tx)
MANAGEABLILITY	
Management and setup	Web-based
SNMP agents	MIBII
Protocol	TCP/IP, IPX/SPX, NetBEUI
Operating System	Windows 98/2000/NT/XP
Network Architecture	PTP / PTMP
Bandwidth Management	Versatile Quality of Service
Other features	VLAN; Spanning Tree Protocol (802.1d)
SECURITY	
Data Encryption	64/128/152 bits encryption; WPA-PSK, WPA2 (AES-128 bits)
Authentication	802.1x Auth.(EAP)
Authorization	MAC Address Access Filter
Other security features	Disable broadcast SSID; Wireless Client Security Separation
ANTENNA	
Frequency	5.1 GHz ~ 6.1 GHz
Gain	23 dBi
Beamwidth	H 11.4º ; E 10.6º
VSWR	<=1.7:1
Front to back ratio	40 dB
Impedance	50 ohms
ENVIRONMENT	
Operating Temperature	-30ºC ~ 55ºC
Storage Temperature	-30ºC ~ 70ºC
Humidity	95% non-condensing
POWER SUPPLY	
AC 100-264 V, DC 24 V or DC 48 V (Optional for Telecom grade)	
PHYSICAL	
Dimensiones	335 (L) x 335 (W) x 81 (H); mm
Weight	2.9 Kg ; 6.39 lb
WARRANTY	
Validity	1 year
ADVANCE	
Base Station Scanning	RSSI
Watchdog	
Audible antenna alignment (optional)	

B ▸ **How to Order**

**LP-A5160AI 5150MHz - 6060MHz, EIRP=46dBm OFDM Ethernet Radio
with 23dBi panel antenna-integrated**