ATLAS SERIES Product Family Description Broadband Wireless Access Radio Licensed Band Outdoor Solutions with internal antenna

ATLAS_PFD_ENC01W

Applications

- Long distances P-T-P or P-T-MP Bridge (CPE)
- Monitoring of remote systems
- Sensor data capture in embedded systems
- Home automation & building control
- SCADA (supervisory control & data Acquisition)
- Dedicated ISP connections for high-reliability subscribers
- Enterprises or Institutions LAN and PBX extension



ATLAS SERIES Product Family Description Broadband Wireless Access Radio Licensed Band Outdoor Solutions with internal antenna

The ATLAS Series by LanPro is an ideal solution for Broadband wireless access. The support of various frequencies from 400MHz~6GHz, including the licensed band for Wimax or customized frequencies. That flexibility provides the customer more options besides the crowded ISM band. The use of an internal antenna simplifies the deployment work.

The fractional bandwidth control feature (5/10/20MHz adjustable via software) allows more non-overlapping channels in a practical deployment, providing better flexibility in deploying the network.

High output power OFDM/TDD technology supports better performance for near-line of sight deployment, and the unique regatta mode enhances the throughput of the radio up to $25\sim35\%$.

Supports WEP 64 / 128 / 152 bits, 802.1x Authentication (EAP), MAC address filtering, disable broadcast the SSID, client isolation and WPA-PSK / WPA(TKIP) / WPA2(AES-128bits) encryption. All these functions make the network much more secure and reliable.



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Product Highlights

• Effective spectrum utility

The LanPro ATLAS series support fractional bandwidth control. There are 3 channel bandwidths (5, 10 and 20MHz) adjustable via software, that provide better flexibility in deploying the network.

• Regatta mode increases performance up to 35%

Unique regatta mode enhances the throughput of the radio up to 25~35%

• Versatile Quality of Service / Time-Division Multiplexing technique

TDM tech can avoid packet collision and send packets more efficiently and in a stable manner to improve voice quality and data transmission. Throughput of the radio can be set in fractional (nx64 Kbps).

• High output power OFDM technology and Integrated antenna design

Integrated panel antenna with high output power OFDM technology provides best flexibility and lowest price, and at the same time makes the ATLAS series the most cost effective solution in the WLAN outdoor radio market.

Security

WEP 64 / 128 / 152 bits, 802.1x Authentication (EAP), MAC access control, disable broadcast the SSID, client isolation, WPA-PSK, WPA-TKIP encryption and WPA2 (AES-128bits) build the highest security mechanism to prevent 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 status of antenna alignment. Customer can order the audible antenna alignment model. Just align the antenna with the sound heard through the headphone of your mp3 player, easy and simple.

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Specifications

RADIO							
Model No.				LP-A2324AI	LP-A2729AI		
Frequency Range				2302-2482MHz	2700-2900MHz		
OUTPUT Amplifier POWER / RX SENSITIVITY (Packet Error rate :10%) Internal antenna versions							
64QAM (54Mbps)				20(±1.5) / -72(dBm)	18(±1.5) / -73 (dBm)		
16QAM (36Mbps)				22(±1.5) / -78 (dBm)	21(±1.5) / -81 (dBm)		
BPSK (18Mbps)				23(±1.5) / -84(dBm)	25(±1.5) / -88 (dBm)		
QPSK (6Mbps)				23(±1.5) / -90(dBm)	25(±1.5) / -92 (dBm)		
CCK(DSSS)				23(±1.5) / -90(dBm)	N/A		
Antenna Gain				18dBi	18dBi		
EIRP				41dBm	43dBm		



Model No.	LP-A3334AI	LP-A3437AI		LP-A4949AI	LP-A5160AI			
Frequency Range	3300-3400MHz	3400-3700MHz		4940-4990MHz	5150-6060			
	OUTPUT Amplifier PC) WER / RX SENSITIVITY (Pag	cket Error rate :10%) Internal	antenna versions				
64QAM (54Mbps)	25(±1.5) / -77 (dBm)	18(±1.5) / -73 (dBm)		17(±1.5) / -72 (dBm)	18 (±1.5) / -72 (dBm)			
16QAM (36Mbps)	27(±1.5) / -85 (dBm)	21(±1.5) / -81 (dBm)		19(±1.5) / -78 (dBm)	22(±1.5) / -78 (dBm)			
QPSK (18Mbps)	28(±1.5) / -92 (dBm)	25(±1.5) / -88 (dBm)		21(±1.5) / -84 (dBm)	23(±1.5) / -84 (dBm)			
BPSK (6Mbps)	28(±1.5) / -96 (dBm)	25(±1.5) / -92 (dBm)		21(±1.5) / -90 (dBm)	23(±1.5) / -90 (dBm)			
CCK(DSSS)	28(±1.5) / -96 (dBm)	N/A		N/A	N/A			
Antenna Gain	18dBi	18dBi		23dBi	23dBi			
EIRP	45dBm	43dBm		44dBm	46dBm			
Modulation	OFDM / (DSSS)							
Duplex	TDD							
Channel Bandwidth	5 / 10 / 20 MHz							
Frequency Stability	±10ppm							
INTERFACES								
RF			N-Jack					
Ethernet	IEEE 802.3(10 Base-T) / IEEE 802.3u(100 Base-Tx)							
RSSI (Receive	Signal Strength I							
Bridge Mode		indicación)	Connections Status					
CPE Mode	Connections Status Site Suprov							
Antenna Alignment	Site Survey Audible Antenna Alignment (beeper)							
MANAGEABILI	TV	Addit	ole Antenna Angriment (beeper)					
	I Y							
Management and setup	Web-based configuration							
Operating mode	Peer to Peer (Bridge) / AP / CPE							
Network Architecture	PTP Bridge / PTMP Bridge / Repeater							
Operating System	Windows 98 / 2000 / NT / XP							
SNMP agents	MIB II							
Protocol	TCP/IP, IPX/SPX, NetBEUI							
qos	Peer to Peer link speed limit/ CPE uplink speed limit							
DHCP support	DHCP Client							
Other Features	VLAN(IEEE 802.1Q)							
SECURITY								
Data Encryption		WEP (64/128/152 bits	s) / WPA-PSK / WPA-TKIP / WPA2	(AES 128bits)				
Authentication	802.1x Auth.(EAP)							
Authorization	MAC Access Control							
Advanced Security	Disable Broadcast SSID / Wireless Client Security Seperation (Layer 2 Isolation)							
ENVIRONMENT								
Operating Temperature	-30~55°C: LP-A2324AI / LP-A2729AI / LP-A3437AI / LP-A4949AI/ LP-A5160AI 0~55°C: LP-A3334AI							
Storage Temperature	-30~70°C							
Humidity	95% non-condensing							
POWER								
Power Supply		AC	100-264V, DC 24 V, 50-60Hz					
PHYSICAL			, , , , , , , , , , , , , , , , , , ,					
		350) (I) * 250 (M) *75 (U) · · · · ·					
Dimensions	259 (L) * 250 (W) *75 (H) ; mm 1 8Kg· P-A2324AI / P-A2729AI / P-A3437AI / P-A4949AI / P-A5160AI							
Weight	1.8Kg: LP-A2324AI / LP-A2729AI / LP-A3437AI / LP-A4949AI / LP-A5160AI 2.5Kg: LP-A3334AI							
WARRANTY								
Validity			2 Years					

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How to order

LP-A2324ai 2302MHz - 2482MHz, OFDM Ethernet Radio with EIRP=41dBM, and 12 dBi Integrated Panel Antenna
 LP-A2527ai 2550MHz - 2700MHz, OFDM Ethernet Radio with EIRP=49dBm, and 18dBi Integrated Panel Antenna
 LP-A2729ai 2700MHz - 2900MHz, OFDM Ethernet Radio with EIRP=43dBm, and 18dBi Integrated Panel Antenna
 LP-A3334ai 3300MHz - 3400MHz, OFDM Ethernet Radio with EIRP=45dBm, and 18dBi Integrated Panel Antenna
 LP-A3437ai 3400MHz - 3700MHz, OFDM Ethernet Radio with EIRP=43dBm, and 18dBi Integrated Panel Antenna
 LP-A4949ai 4940MHz - 4990MHz, OFDM Ethernet Radio with EIRP=44dBm, and 23dBi Integrated Panel Antenna
 LP-A5160ai 5150MHz - 6060MHz, OFDM Ethernet Radio with EIRP=46dBm, and 23 dBi Integrated Panel Antenna