

**LP-1540ai High Powered 300 Mbps Access Point for the 2.4 GHz WiFi band for Outdoor service, PoE powered with Multiple Physical and Virtual interfaces that supports VLAN and has an EIRP of 27dBm (0.5W).**

LP1540ai\_SS\_ENB01W

### Features:

- 27dbm±1.5dbm EIRP Power output.
- IEEE802.11 b, g and n Standards compliant.
- Supports high air Data rates up to 300 Mbps when in the IEEE802.1n mode with two air streams.
- High Reception sensitivity with a peak of 67dBm±1.5dBm Mbps and EIRP of output transmit power (500mW) for an ample WiFi coverage.
- Supports the creation of multiple Logical Interfaces.
- Provides MAC Access Control.
- Supports advance routing settings.
- Provides multiple SSIDs.
- VLAN Support for some Interfaces.
- Supports via WEB configuration.
- Supports advance Firewall Rules for physical and logical interfaces (GLOBAL AND INDIVIDUAL).
- Firmware update via browser.
- Basic Diagnostic support on Firmware.
- Provides an Ethernet Interface of 10/100 Mbps and supports automatic MDI/MDIX.
- Advanced DHCP-Server, DNS Features and NAT Firewalls.
- Supports LAN Host names Table.
- Firmware includes (load, Traffic, Wireless and Connections) Dashboard for monitoring.
- Supports Execution of Scheduled Tasks.
- Supports Upgrade Boot Loader.
- Supports air-rate automatic speed.
- Supports MAC Address filtering encryption; wireless security turn on and off, WEP 64/128/152bit encryption; and PA-PSK/WPA2-PSK WPA/WPA2, by reinforcing security mechanisms for data transmission.
- Includes a DHCP Server.
- Supports QoS, for a better network service.
- Supports WMM, and delivers a better audio with your video stream.
- Supports the Spanning Tree Protocol 802.3d.



**300**  
Mbps

**2.4**  
GHz

**9341**  
Atheros

**EIRP 27**  
dBm

**LP-1540ai High Powered 300 Mbps Access Point for the 2.4 GHz WiFi band for Outdoor service, PoE powered with Multiple Physical and Virtual interfaces that supports VLAN and has an EIRP of 27dBm (0.5W).**

The **LP-1540ai** is a High Powered 300 Mbps Access Point for the 2.4 GHz WiFi band for Outdoor service, PoE powered with Multiple Physical and Virtual interfaces that supports VLAN which is very convenient for delivering services of Data, Voice and Video Streaming.

The **LP-1540ai** was designed to be usable in a friendly manner and was beautifully designed for installation on roofs, resulting in a superb solution for delivering WiFi service to ample outdoor spaces with the added feature that lets you create VLANs.

The **LP-1540ai** supports Passive Power Over Ethernet (PoE), which allows for powering it through the data cable.

This excellent solution uses the IEEE802.11 11b, 11g, 11b/g, 11b/g/n Standards and a air transmission rate of 300 Mbps for equipment compliant with the 802.11n standard, in the 2412 MHz ~ 2484 MHz range of frequencies (Channels 1 ~ 14).

This radio uses a technologically leading chipset and an integrated directional antenna with a 14dBi gain for ample coverage and distance. LanPro has created a set of templates that facilitates the setup of this versatile radio in various configurations that take advantage of its functionalities, and can be downloaded from the [www.lanpro.com](http://www.lanpro.com) website and also come included in the CD supplied with the unit. These templates are regularly updated to facilitate our clients work in a easy, fast and effective way of using the equipment.

This equipment supports the creation of virtual interfaces over physical interfaces like the two independent accesses from multi-AP's over a single wireless interface.



One of the most important advantages of the LP-1540ai is that it lets you use it in a very simple manner or as a complex and efficient radio due to the new software embedded in it to give you ample flexibility, including the creation of virtual interfaces that can be controlled with specific rules. You will be able to use VLANs, QoS, Filtering, DHCP technologies and configure the LP-1540ai to perform timed routine tasks; our new software has no boundaries for the creation of a perfect radio and its services. Let our new technology of ("Set it by yourself") and our pre-configured templates drive you on the road to a perfect service deployment.

The **LP-1540ai** has an excellent reception sensitivity:

- IEEE 802.11b 11Mbps ≤ -84dBm
- IEEE 802.11g 54Mbps ≤ -71dBm
- IEEE 802.11n 2.4GHz
  - HT20 ≤ -67dBm
  - HT40 ≤ -64dBm

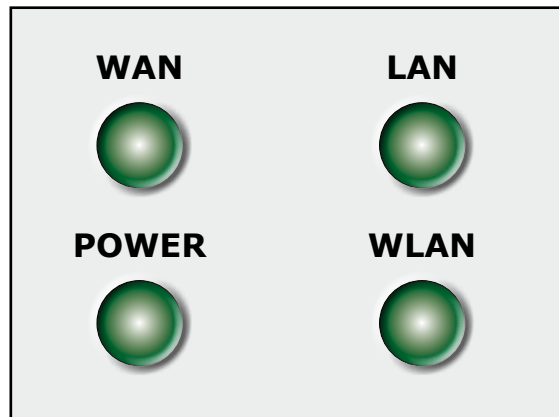
And bandwidths of 20 or 40MHz.  
Also has a High Power Output EIRP of 27dbm±1.5dbm.

The **LP-1540ai** prioritizes Online Game traffic, Voice over IP(VoIP) and multimedia streams with the Intelligent QoS function, for both wired and wireless connections.

In the same manner, it supports Wireless Encryption security of 64/128/152bit WEP encryption; PA-PSK/WPA2-PSK WPA/WPA2 security mechanism. Supports the following Ciphering schemes: CCMP (AES), TKIP, TKIP and CCMP (AES) or AUTO.

**A General Specifications**

<b>Standards compliance</b>	IEEE 802.11g, IEEE 802.11b, IEEE802.11n, IEEE 802.3, IEEE 802.3U
<b>Interface</b>	2 RJ45 Port 10/100M, Support Auto MDI/MDIX
<b>Push button</b>	Reset in 1 second Factory default values 10 seconds
<b>LED (Green)</b>	<b>See figure 1</b>
<b>Antenna</b>	Built-in 14dBi High gain directive antenna MIMO 2x2
<b>Power Input</b>	Input Jack: DC 12V/1A or PoE, 12VDC, 0.4A



**Figure 1: LEDS**

**B Wireless Specifications**

<b>Basic Functions</b>	Wireless ON/OFF SSID radio ON/OFF Working Channels : 1-14 Multiple SSID Isolation SSID hidden Multiple SSID Configuration
<b>Frequencies</b>	2.412---2.4884 GHz,
<b>Band</b>	2.4GHz, IEEE 802.11b/g/n
<b>Output Power</b>	22dBm
<b>Wireless transmission speed</b>	IEEE 802.11b: 1,2,5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 26, 48, 54 Mbps IEEE 802.11n: 300 Mbps (Typical value)
<b>EIRP Antenna output power</b>	27dBm±1.5dBm (500mw )
<b>Bandwith</b>	20 MHz o 40 MHz
<b>Input Sensitivity (Typical)</b>	IEEE802.11n: MCS8 @-90dBm MCS15@-70dBm IEEE802.11g: 6 Mbps@-92dBm 54 Mbps@ -72dBm IEEE802.11b: 1 Mbps@-93dBm 11Mbps@-89dBm
<b>Working modes</b>	Provides multiple working modes such as wireless routing, wireless AP,AP client, wireless bridging and wireless repeater,  (a) AP Bridge: All the interfaces are connected to the LAN Bridge. In this mode, both AP and WDS Client are supported  (b) Client Bridge: Similar to the AP Bridge, but support the function to bridge AP client to remote AP  (c) WAN Getway: Behave like a wireless router, support Wireless WAN or WAN port
<b>Wireless Security</b>	Flitting MAC address; Turn on/of wireless security; 64/128/152bit WEP encryption;PA-PSK/WPA2-PSK WPA/WPA2

**C Hardware Specifications**

<b>Item</b>	<b>Description</b>
<b>CPU</b>	Atheros AR9341
<b>DDR</b>	64MB
<b>Flash</b>	8MB
<b>Power Supply</b>	12-15VDC@1A ó POE 12V 0.4A
<b>CPU Clock</b>	580 MHz
<b>Integrated Antenna</b>	14dBi directional g MIMO 2x2 (2Tx,2 Rx)
<b>Ethernet Port</b>	2x10/100 Mbps LAN
<b>Reset Push Button</b>	1

**C Hardware Specifications**

<b>LED indicators (See figure 1)</b>	<b>Power indication LED</b> ON: Power input OFF: No power input			
	<b>LAN LED</b> OFF: No device connected ON: Device connected Blinking: Data transmission through the port			
	<b>Wireless LED:</b> OFF: No wireless connection Blinking: Wireless transmission			
<b>Type of modulation</b>	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK			
<b>RF frequency Range</b>	2412 MHz ~ 2484 MHz (Channel 1 ~ 14)			
<b>Power consumption</b>	≤9W			
<b>RF Power @ 25°C</b>	802.11b	1-11 Mbps	21±1.5dBm	
	802.11g	6-9 Mbps	21.5±1.5dBm	
		12-18 Mbps	21±1.5dBm	
		24-36 Mbps	20.5±1.5dBm	
		48-54 Mbps	20±1.5dBm	
	802.11n	HT20	MCS 0/8	21±1.5dBm
			MCS 1/9	21 ±1.5dBm
			MCS 2/10	21±1.5dBm
			MCS 3/11	21±1.5dBm
			MCS 4/12	21±1.5dBm
			MCS 5/13	20±1.5dBm
			MSC 6/14	19±1.5dBm
		MSC 7/15	19±1.5dBm	
		HT40	MCS 0/8	21±1.5dBm
			MCS 1/9	21 ±1.5dBm
			MCS 2/10	21±1.5dBm
MCS 3/11			21±1.5dBm	
MCS 4/12			21±1.5dBm	
MCS 5/13			20±1.5dBm	
MSC 6/14	19±1.5dBm			
MSC 7/15	19±1.5dBm			
<b>Sensitivity RF</b>	IEEE 802.11b 1Mbps≤- 93dBm 11Mbps≤- 89dBm	IEEE 802.11g 6Mbps≤-92dBm 54Mbps≤-72dBm	IEEE 802.11n HT20 IEEE 802.11n HT 20 MCS 0/8 ≤90dBm MCS 7/15≤-70dBm HT 40 MCS 0/8 ≤88dBm MCS 7/15≤-64dBm	

## D Physical Specifications

Item	Description
Dimensions (mm)	Dimensions Width: 105 mm x Height:260 mm x Depth:65 mm
Weight	≤200g
Environmental	
Relative Humidity without Condensation in operation	90%
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C

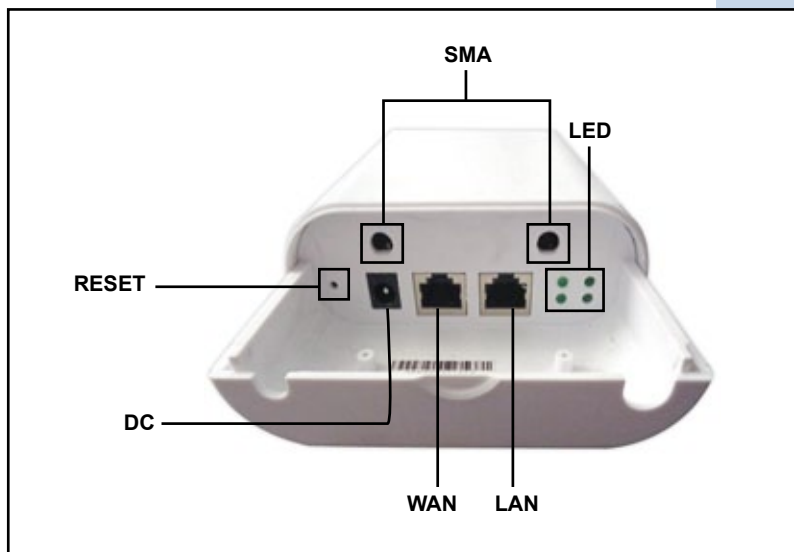


Figure 2: Location of connections, Reset push-button and LED indicators

## E How to Order:

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