

802.11b/g/n WL500AP Router

Product Introduction

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This Wireless Area Network(WLAN) Access Point supporting 802.11 b/g/n, bringing high-speed wireless Internet connection to a home or office, can provide the transmission of broadband data service. It is suitable for using in a wide range of both residential (in-home) and commercial (offices, apartments, hotels, warehouses) network applications. It gives you a blazing fast connection to the internet, far fast and more convenient. It is a high-performance wireless gateway and can support downstream up to 300Mbps and upstream up to 300Mbps.

This device has a megabit wide area network(WAN) port connecting external internet network. Using 802.11 b/g/n wireless technology, Wi-Fi enabled computers and devices can wirelessly connect to the device and share a single incoming Internet connection. With four additional local Ethernet LAN ports, you can connect four different PCs sharing Internet connection. You can also connect two USB device directly or by using USB cable.

A Web-based user interface allows you to easily modify settings to connect to your Internet Service Provider (ISP). This Web interface also provides traffic statistics, connection speed, and other detailed information.

This device supports DHCP client, DHCP server, as well as NAT/NAPT functions. As a DHCP client, it can dynamically acquire external internet IP address. As a DHCP server, it can dynamically allocate local IP addresses to the associated wireless stations and wired LAN port PCs. NAT/NAPT implements local IP address and external IP address conversion.

This device supports static IP, Dynamic IP, as well as PPPoE connections, and works with applications such as online gaming and VPN transparent connections with no additional configuration.

This device is easily upgradeable, making it future-proof for both end-users and service providers. Whether it's for a home user who wants to share wireless high-speed Internet access or for a small office that needs Internet access for conducting essential business activities, it is the ideal wireless broadband solution.

Applications

- Home and SOHO wireless gateway
- The small enterprise Applications
- TV over IP (IPTV)
- Voice over IP (VoIP)
- Higher data rate broadband sharing
- Shared broadband internet access
- Audio and video streaming and transfer
- PC file and application sharing
- Network and online gaming

Compliance Certificates:

- Wi-Fi Certification
- FCC Class B
- CE Mark

Wi-Fi Feature

IEEE802.11 compatible b/g/n draft 2.0 access point

Antenna configurations: 2T3R Modes

Support 64/128-bit WEP, 802.1x, WPA, and WPA2 for wireless security

Support 802.11e wireless multimedia QoS

Support 802.11f inter AP handover

Support multiple SSID

SSID hide

Support VLAN

MAC address access control list

MAC addresses self-learning

Support transparent bridging

VPN Pass Through on L2TP, PPTP, IPSec

DHCP Server and Client

Support static IP routing

Support NAT、NAPT

Support DMZ

Support IP QoS

telnet, HTTP Web Management, TFTP for Firmware Upgrade

wireless signal rates: 54, 48, 36, 24, 18, 12, 9, 6 Mb/s for 802.11g; 11, 5.5, 2, 1 Mb/s for 802.11b;

11n (20MHz): MCS0-15 with Short Guard Interval Support (up to 144Mbps)

11n (40MHz): MCS0-15 with Short Guard Interval Support (up to 300Mbps).

UDP throughput: up to 128Mbps

Support UpnP

100M wide area network(WAN) port x1

10M/100M local area network(LAN) port x4

USB1.1./2.0 Device port x2

External Connectors

4 10/100M local Ethernet Ports (RJ-45)

1 100M WAN port

2 USB 1.1./2.0 port

Protocol Feature

IEEE 802.11b

IEEE 802.11g

IEEE 802.11n draft 2.0

IEEE 802.11e

IEEE 802.11i

IEEE 802.11d

IEEE 802.11h

IEEE 802.11j

IEEE 802.11f

RFC768 User Datagram Protocol (UDP)

RFC791 Internet Protocol (IP)

RFC792 Internet Control Message Protocol (ICMP)

RFC793 Transmission Control Protocol (TCP)

RFC826 An Ethernet Address Resolution Protocol (ARP)
RFC862 Echo Protocol
RFC2516 PPP Over Ethernet (PPPoE)
RFC1332 PPP Internet Protocol Control Protocol
RFC2131 – Dynamic Host Configuration Protocol (DHCP)
RFC894 A Standard for the Transmission of IP Datagrams over Ethernet Networks
RFC1042 A standard for the Transmission of IP Datagrams over IEEE 802 Networks
Support ALG(Application Level Gateways)
IEEE802.3
IEEE802.1d
IEEE802.1q

Wireless Feature

Compatible with IEEE 802.11 b/g, 802.11n draft 2.0, 802.11s current draft
Support 64/128-bit WEP, 802.1x, WPA, and WPA2 for wireless security
Support RTS/CTS, Fragmentation and Defragmentation function
Support WMM, WMM-PS
Support Multiple BSSID
Block Ack
Reverse Direction Data Flow
Link Adaptation
Hardware WEP, TKIP, AES Engines
support WDS
Support Hide SSID
Support MAC Access/Deny List
WMM support
WPA1/2 – PSK (WPA Home), WPA1/2 – 802.1x (WPA Enterprise)
EAP – TLS, TTLS, LEAP, PEAP
Roaming
Seamlessly roam and handover within mesh network
Adaptive mesh network routing establish and update
Wireless Frequency Range, 2.4 ~ 2.4835GHz, 5.15~ 5.35GHz, 5.725~ 5.825GHz ISM Band,
Radio and Modulation Type. IEEE 802.11b: DQPSK, DBPSK, DSSS, and CCK ; IEEE 802.11 g: BPSK,
QPSK, 16QAM, 64QAM ; IEEE 802.11n: MCS0~MCS15;
Transmission distance. 300 meters Outdoors, 100 meters Indoors coverage area(It's limited in an
environment.)
Antenna 5dBi
Transmission power. 802.11b: Typ. 18 dBm @Normal Temp Range; 802.11g: Typ. 15 dBm @ Normal
Temp Range ; 802.11n: Typ. 15 dBm @ Normal Temp Range

Management Support

Device Configuration, Management and Update
Web based GUI
Localization support
Embedded web server
Download image via HTTP, TFTP client, TFTP server
Command Line Interface via serial port, telnet, or ssh
Menu-driven CLI via serial port or telnet

Universal Plug and Play (UPnP) Internet Gateway Device (IGDv1.0)

SNMP v1/v2c agent, SNMP MIBs;802.11 b/g/draft n2.0 MIBs;

PSI configuration file upload and download

Date/time update from SNTP Internet Time Server

Security Support

Three level login including local admin, local user and remote technical support access

Service access control based on incoming interface: WAN or LAN

Service access control based on source IP addresses

Protect DOS attacks from WAN/LAN: SYN flooding, IP surfing, ping of Death, fragile, - UDP ECHO (port 7), teardrop, land.

PAP (RFC1334), CHAP (RFC1994), MSCHAP for PPP session.

IP filter, Parental control.

OS Support

Linux kernel 2.4/2.6

Environment

Operating temperature: 0°C to 40°C

Storage temperature: -20°C to 70°C

Operating Humidity: 10%~95% no freezing

Storage humidity: 5%~95% no freezing