

Carrier-Class Wireless Base Station WAP-750

Solutions for WiFi Base Station – Backward Compatible with WiMAX



The **WAP-750** wireless access point (AP), applies to WiFi base station with its carrier-class Broadband Wireless Access Platform without numerous smaller APs to construct citywide WLAN. This reduces construction fees for public areas, as one unit for all you need for up to 6 radios with combination of 900MHz, 2.4 GHz, 3.5GHz, 4.9 GHz, and 5.8 GHz on different channels. It is backward compatible with WiMAX PCMCIA radio cards.

The WAP-750 is specially designed for point-to-multipoint applications to provide a superior performance solution for connecting many locations through wireless, yet flexible to customize for your deployment. It has up to quad wireless interface for sectors or backhaul. The WAP-750 delivers Internet service to your clients' network for extreme distance of 145 miles or more. You can use this package to provide high data rates and superior throughput for data-intensive yet up to hundreds of concurrent users for WiFi Citywide project. Multiple sites can share a single, high-speed connection to the Internet. The feature rich radio firmware allows you to apply the most advanced firewall, NAT, bandwidth shaping, cloaking modes, Super A/G or Turbo modes for up to 108 Mbps of throughput, and other technologies to create a smart and manageable network. You can secure wireless traffic with firewall, VLAN, encryption (WEP/WPA/WPA2) from base to individual clients. Mesh / WDS Spanning Tree Bridging are available for all connected APs and clients in the same SSID group or Multiple SSIDs. QoS with video / gaming priority is available.

Optional channel selections from 4.9GHz - 6.1GHz, and 2.3GHz - 2.7GHz providing support for both public and licensed bands. While bundle with WiBorne's CPE [CAP-1900](#) or CAP 2400 Series and [HSG Access Controllers](#), it supports remote management from individual clients to backhaul network management systems for hundreds of base stations with thousands of wireless clients.

WAP-750 is expandable for dual radio that you can add additional radios for backhaul or sector broadcast. Additional firmware model WAP-750S is available for variety of applications.

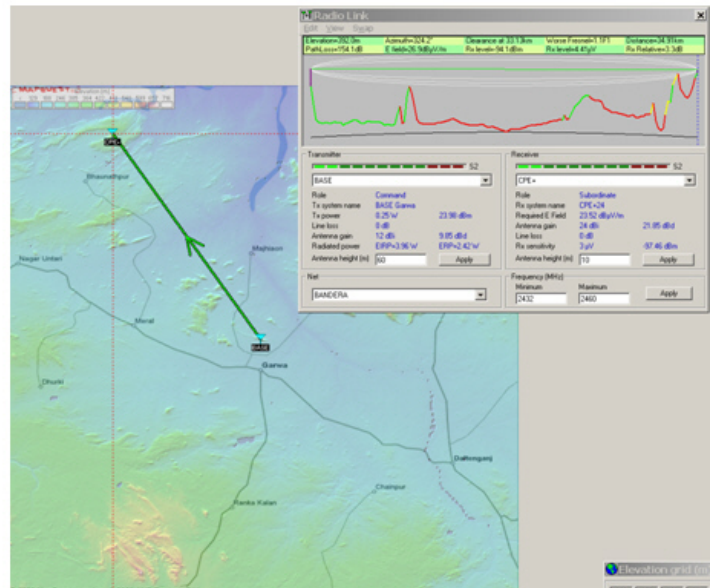
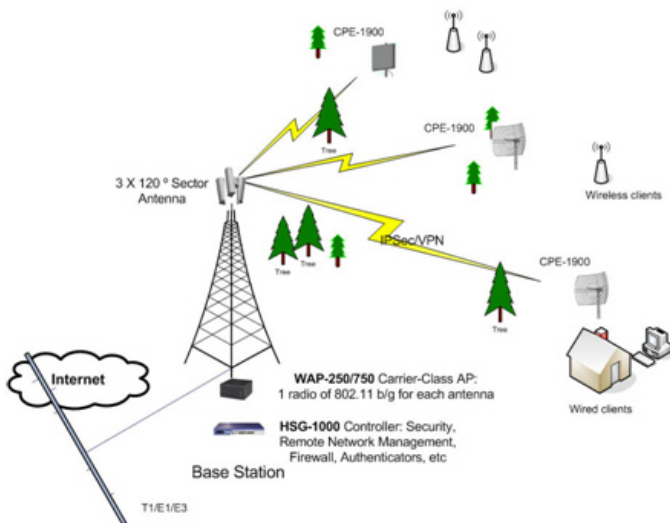
WiBorne has developed the WAP-750 platform based on state-of-the-art wireless technology. The 2nd generation intelligent wireless edge platform enables new revenue generating converged services for IP data, voice and video streaming. The WAP platform is a rugged communications-grade wireless delivery system with superior performance and high reliability to enable cost effective deployment.

Features:

- Up to 6 high power 400mW / 600mW radio for variety of wireless frequency.
- Super A (hardware compress, aggregation, and bursting)
- Data throughput of 26 Mbps or 43 Mbps in Turbo. Data Compression for throughput approaching 60 Mbps in Standard 54 Mbps Mode
- Optional 108Mbps Turbo (802.11g channel bonding)
- Packet Aggregation for improved VoIP and gaming
- Extreme distances ranged 120KM is supported.
- Cloaking mode for 5, 10, 20, or 40 MHz that can not seen from standard wifi radio
- Channel selections from 4.9GHz - 6.1GHz, and 2.3GHz - 2.7GHz providing support for both public and licensed bands
- NEMA 6 Aluminum outdoor case
- Firewall and NAT with stateful packet filtering
- QoS by IP/ protocol / subnet / ports, HTB, PCQ
- VRRP for High Availability
- Mesh - WDS (wireless distribution service), Nstreme and Nstreme2 protocols, AP bridging
- Audible aiming tool for antenna alignment
- Bridge: spanning tree protocol; multiple bridge interfaces; bridge firewalling, MAC NATting
- Client statistics (current signal level/quality, rate TX/RX, bytes TX/RX, radio rate)
- 104 and 128 bit WEP and WPA support.
- IPSec: DES, 3DES, AES-128, AES-192, AES-256
- Routing for RIP, BGP, OSPF, static routing
- VLAN: 802.1q, multiple VLANs; VLAN bridging
- Console/Terminal/SSH/Telnet/CLI/SNMP
- Neighbor Discovery; ping; traceroute; bandwidth test; ping flood; packet sniffer; Dynamic DNS update tool
- Proxy: FTP & HTTP caching proxy server; HTTPS, DNS and HTTP, DNS entries, caching lists, access control lists
- Authentication: PPTP, PPPoE, L2TP, WPA, access control, MSCHAPv1/v2, RADIUS, MPPE encryption
- DHCP server/client/relay, multiple DHCP networks
- Layer 2 connectivity: bridge, synchronous, Asynchronous, ISDN, and SDSL
- UPnP, NTP, SNMP, Cisco (CDP)
- Monitoring and accounting for traffic, firewall logging

Standard Hardware Specs

- Processor: Minimum Intel Celeron 2.0 GHz with 256MB DDR memory or more
- I/O Ports: RJ-45 port x2 or more, N-Type Radio ports, RS-232 port x 1, VGA port x 1, keyboard/mouse port x 1, USB port x 2. Ports maybe varied for different configuration
- Storage Device: One 2.5" HDD, 3.5" HDD, or compact flash card.
- LED: HDD activity indicator, power on/off LED indicator, amplifier strength indicators number of radios X 4, amplifier power indicators
- Dimension: 254mm X 175mm X 410mm (10" X 6.9" X 16.1"). Case may be varied, dependent on configuration
- Certificates: regulation for FCC Radio



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