

Outdoor High Power Waterproof Access Point Router for Base Station and CPE

WiBorne AP router, WAP-192, is a high-power outdoor Wi-Fi AP router operating in the 802.11 b/g 2.4 GHz band, with IP 67 / NEMA 6 waterproof die cast enclosure for extremely long life outdoor environment. It's a feature-rich radio can be applied to many applications!



The WAP-192 is a feature-rich outdoor AP with features designed with the WISP in mind. The versatility of the operating modes means that one AP can be used in many different applications, reducing the number of spare units needed, installation time, and maintenance costs. The WAP-192 can function as an AP, AP client, PtP bridge, AP Router, AP client router (w/ NAT), Universal Repeater Mode, and AP Repeater mode using Mesh OSPF or WDS (Wireless Bridge).

The WAP-192 also comes with many features that are highly desired in the WISP market. For management, the WAP-192 has Web configuration pages, an SSH CLI, and is also SNMP enabled. Firmware upgrades can also be performed over the air through the web interface. In addition, the high output power with RSSI indication allows longer shots to be made easily. Also, the many antenna options available means that the right antenna for the right shot may be used. The Power over Ethernet feature, when teamed with the hinged enclosure design, makes installation a breeze for any technician.

WAP-192

The WAP-192 is the perfect choice for any 802.11b/g based networks. Advanced features such as layer 2 isolation in AP mode and PPPoE client in AP client router mode make this radio one of the most advanced 802.11b/g radios and one of the best price / performance on the market.

❖ Features at a glance

- Compatible with IEEE 802.11b/g & IEEE 802.3 standards
- Rugged weatherproof design in a compact and stylish enclosure with all electronics protected in aluminum for EMF protection.
- Ideal for wireless LAN access in all indoor and outdoor areas.
- Flexible mounting on wall or antenna mast (up to 2.5 inch diameter)
- Can be mounted for Horizontal or Vertical Polarities
- Power over Ethernet cable using PoE injector
- Auto Fall back data rate for long distance communication in noisy environments
- High standard waterproof IP 67 (NEMA 6) and weatherproof
- Wireless security with 64/128Bit WEP, WPA (TKIP), WPA2 (AES or Mixed), 802.1x / RADIUS client, and MAC Access Control.
- Firewall (Port / IP / MAC filtering, Port forwarding, MAC filter, DMZ)
- IPSec VPN and NAT Traversal with Pre-Shared Key between nodes
- Work with all operating system. Driver-less operation with true 'Plug and Play'
- VoIP, gaming and video conference. WMM(QoS) optional
- Transparent Bridge mode for Mac Authentication with VoIP phone (optional)
- Mesh routing protocol OSPF
- ACK Timing, RTS/CTS Fragmentation Threshold, Beacon, IAPP, and Preamble Type
- Adjustable output power up to 250 mW for 11b (CCK) and 100 mW for 11g (OFDM). 500mW board available.
- Configurable Multi-modes AP: AP, AP Client, WDS, AP Bridge, PtP & PtMP Bridging, AP Client and Routing
- Universal Repeater Mode that acts both AP / Client modes
- WDS Modes: Bus, Star, Ring, and Mesh with 802.1d Spanning Tree Algorithm
- Time zone setting with NTP client
- PPPoE and PPTP Client, DHCP Server and Client
- Static and Dynamic NAT Routing
- Bandwidth Control for Client Mode
- Wireless Site Survey and Aiming Tool
- SNMP v1/v2c agent & MIB II management
- Web base Management and CLI
- System Status and Log Reports
- Firmware can be remotely upgraded
- VoIP, Uni/Multi cast for video streaming / conferencing, messaging
- Hardware Watchdog Timer to reset processor
- lighten protector with gas discharge tube (GDT) design with multi-strike capability
- LED hardware and software aiming tool for easy alignment of antenna direction

Outdoor High Power Waterproof Access Point Router

Model No.	WAP-192 Outdoor High Power AP Router
Standard	IEEE 802.11b/g (Wireless LAN), IEEE 802.3 (Ethernet CSMA/CD)
Wireless & Wired Security Functions	Secure with 64/128Bit WEP, WPA (802.11i TKIP), WPA2 (AES or Mixed), 802.1x / RADIUS client with EAP-MD5/TLS/TTLS, MAC Access Control / Authentication Firewall (Port / IP / Protocol / MAC filters, Port forwarding, MAC filter, DMZ) IPSec VPN and NAT Traversal with Pre-Shared Key between nodes
Operation Functions	ACK Timing, RTS/CTS Fragmentation Threshold, Beacon, IAPP, Preamble Type Adjustable transmit power up to 250 mW for 11b (CCK) & 100 mW for 11g (ODFM) Static and NAT Router, DHCP server and Client. PPPoE and PPTP Client SNMP v1/ v2c agent & MIB II management Layer 2 Client Isolation is equivalent with VLAN mode Wireless Site Survey, Clone MAC address, Channel auto selection Configuration Backup / Restore, uPnP, hardware watchdog timer for auto reboot Quality of Service (QoS) or WMM 802.11e for priority of Voice / Video /Gaming Transparent Bridge to authenticate MAC address for VoIP phones Aiming tool with LED lights
Operation Modes	Wireless Access Point, AP Client (Ethernet to WLAN Bridge), WDS (Wireless Repeater; P-to-P, P-to-MP Bridge, or Wireless Bridge), Wireless Router, AP Client with Routing function (WISP Mode), Universal Repeater Mode, Mesh OSPF
Management	Web-base management system and SSH CLI console commands
External Power Jack (via POE)	48 VDC @ 500mA, PoE and PS included. Optional 24VDC
External Bulkhead connector	External RJ-45 Bulkhead connector
Lighten Protector	Lighten protector with gas discharge tube (GDT) design with multi-strike capability. Polyphaser / Citel or equivalent
Interface	One RJ45 (12V ~ 48V PoE), one RP-SMA antenna connector (optional)
Power Supply	USA: 24V / 800mA linear International: 48V / 400mA switching
Mounting	Pole or wall mount (included)
Enclosure	IP67 / NEMA6 die cast aluminum with white epoxy powder coat paint
Dimension	H=10"/254mm W=7.1"/180mm D=2.25"/57mm
Weight	2.65 lbs (1.20 Kg)
Temperature Range	Operating: -20°C to 70°C (-4°F to 158°F). Storage: -40°C to 80°C (-40°F to 176°F)
Relative Humidity	10% to 95% non condensing
Reset	Remote reset / Manufacturing reset
Approvals	Radio FCC Part15, Section 15.247
Radio Characteristics	
Radio Scheme	802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11b: DSSS(CCK, DQPSK, DBPSK)
Frequency Range	2.4 GHz ~2.497GHz
Data Rate	1 / 2 / 5.5 / 6 / 9 / 11 / 12 / 18 / 24 / 36 / 48 / 54 Mbps
Channels	North America: 11 Channels (US, Canada) ETSI: 13 Channels (Most European Countries) TELEC: 14 Channels (Japan)
Range	Varies based on antenna type
Output Power	802.11g: 100mW max. (20 dBm). Optional 200mW max. 802.11b: 250mW max. (24 dBm). Optional 500mW max.
Receiver Sensitivity	802.11g: -69 ± 2dBm @ 54Mbps 802.11b: -87 ± 2dBm @ 11Mbps