

# WiBORNE, INC.

## Outdoor High Power Compact CPE/AP/Bridge/Router with 12dBi Integrated Antenna 33.48dBm/2.2 Watts EIRP



***WiBorne CAP-1912 is a 2.4 GHz 802.11b/g compatible client bridge/route this is completely integrated in to a 12dBi antenna delivering superior radio power for cost effective solution!***

The 12dBi integrated antennas comply with FCC standards. The CAP-1912 is the most lightweight, compact-design unit in the CAP-1900 series of outdoor radios. The CAP-1912 combines a 12dBi integrated panel antenna with a high powered, 24dBm RF engine, providing the capability of achieving long-range wireless links. The small waterproof, plastic enclosure is ideal for users with spatial or aesthetic restrictions. This device can be installed on the building exterior as well as indoors. CAP-1912 delivers reliable performance under all climatic conditions, withstanding temperatures between -30°C ~ +60°C. Driverless Operation - The self-contained CAP-1912 unit can be mounted on a pole or wall. With the included Power over Ethernet (PoE) the CAP-1912 can be powered over the standard Ethernet CAT 5 cable. CAP-1912 also features plug-and-play installation that enables quick and efficient deployment. It works with all WiFi™ compatible IEEE 802.11b/g Access Points and eliminates complicated client installations and driver conflicts with various OS.

Perfect for applications requiring high bandwidth at a fraction of the cost of T1/E1 leased-line, with the additional advantage of zero monthly recurring cost from the service carrier. Typical usages include bridging satellite offices, corporate LANs, school campus, as well as wireless Internet services, at distances up to 7+ miles (10+ kilometers). The compact and lightweight CAP-1912 is also the solution of choice for bridging networks that are impossible to connect using wired alternatives, including networks separated by difficult terrain, railroads, or bodies of water.

### ❖ Features at a glance

- Compatible with IEEE 802.11b/g & IEEE 802.3 standards
- Detachable 12 dBi patch antenna
- Rugged weatherproof design in a compact and stylish enclosure with all electronics protected in plastic 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 watertight (IP66/67) 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)
- LED hardware and software aiming tool for easy alignment of antenna direction
- VoIP-Friendly QoS Mechanism: Bandwidth Management, IP ToS
- 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)
- Configurable Multi-modes AP: AP, AP Client, AP & AP Client modes concurrently, WDS, AP Bridge, PtP & PtMP Bridging, AP Client and Routing (WISP), Universal Repeater mode for both AP and Client modes.
- WDS Modes: Bus, Star, Ring, with 802.1d Spanning Tree Algorithm
- PPPoE and PPTP Client
- DHCP Server and Client
- Static NAT Routing
- Bandwidth Control for Client Mode
- Wireless Site Survey
- Web base Management System and CLI console commands
- System Status and Log Reports
- Firmware can be remotely upgraded
- Work with all operating system. Driver-less operation with true 'Plug and Play'
- Hardware Watchdog Timer to reset processor

**WiBorne**  
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## Outdoor High Power Compact CPE/AP/Bridge/Router With 12dBi Integrated Antenna

<b>Model No.</b>	CAP-1912 – High Power 802.11b/g Wireless Outdoor CPE/AP/Bridge/Router
<b>Standard</b>	IEEE 802.11b/g (Wireless LAN), IEEE 802.3 (Ethernet)
<b>Wireless &amp; Wired Security Functions</b>	Secure 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)
<b>Operation Functions</b>	ACK Timing, RTS/CTS Fragmentation Threshold, Beacon, IAPP, Preamble Type Adjustable transmit power up to 250 mW for 11b (CCK) & 100 mW for 11g (OFDM). Bandwidth Control for Client Mode Static NAT Routing, DHCP server and Client PPPoE and PPTP Client Wireless Site Survey, Clone MAC address Configuration Backup and Restore, Hardware Watchdog Timer LED light software / hardware aiming tool
<b>Operation Modes</b>	Support universal repeater mode (one WLAN interface used as AP and client concurrently), AP Client (Ethernet to WLAN Bridge), WDS ( Wireless Repeater; P-to-P, P-to-MP), Wireless Router, AP Client with Routing function (WISP Mode)
<b>Management</b>	Web base Management System and CLI
<b>External Power Jack</b>	12~15 VDC @ 1A (O.D-5.5mm, I.D-2.1mm)(POE and PS included)
<b>External Bulkhead connector</b>	External RJ-45 Bulkhead connector
<b>Interface</b>	One RJ45 (PoE)
<b>Surge Protector</b>	built in PoE surge protection on the Ethernet port
<b>Mounting</b>	Pole or wall mount via 4 screws (included)
<b>Enclosure</b>	Water tight Radome ABS
<b>CPE Weight</b>	1.6 lbs (0.73kg) with mount
<b>Dimension (L x W x H)</b>	7.8 x 7.8 x 2.48 inch or 19.75 X 19.75 X 6.3 cm
<b>Temperature Range</b>	-30°C ~ +60°C
<b>Relative Humidity</b>	10% to 90% non condensing
<b>Antenna Characteristics</b>	
<b>Gain</b>	12dBi
<b>Frequency Range</b>	2400 - 2485 MHz
<b>Polarization</b>	Horizontal or Vertical
<b>Beam Width (Degree)</b>	E-Plane: 34.5; H-Plane: 41.3
<b>Radio Characteristics</b>	
<b>Radio Scheme</b>	802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11b: DSSS(CCK, DQPSK, DBPSK)
<b>Frequency Range</b>	2.4 GHz ~2.497GHz
<b>Data Rate</b>	802.11g: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps 802.11b: 11 / 5.5 / 2 / 1 Mbps
<b>Channels</b>	North America: 11 Channels (US, Canada) ETSI: 13 Channels (Most European Countries) TELEC: 14 Channels (Japan)
<b>Range</b>	Up to 10+ km/7+ miles for point-to-multi-points; 14+ km/9+ miles for point-to-point. depends on terrain
<b>Output Power (Max)</b>	802.11g: 100mW. 802.11b: 250mW.
<b>Receiver Sensitivity</b>	802.11g: 54Mb@-75dBm. With antenna: 54Mb@-80dBm 802.11b: 11Mb@-91dBm. With antenna: 11Mb@-102dBm
<b>Approvals</b>	Radio Board with FCC Part15, Section 15,247