

WiBORNE, INC.

Outdoor High Power CPE/AP/Bridge/Router with 9dBi Integrated Antenna or Optional External Antenna

CAP-2409

WiBorne CAP-2409 is a 2.4GHz 802.11b/g compatible multi-client/bridge/access point/router/WDS (wireless distribution system). These are completely integrated in to compact 9dBi antenna delivering superior radio power for cost effective solution!



CAP-2409

Designed with ease of installation and cost effective in mind, CAP-2409 simplify subscriber installation with its integrated antenna, Power over Ethernet (PoE), 'Plug and Play' installation and software power controlled capability. Housed in a weatherproof enclosure, CAP-2409 is built to operate in harsh environments. This device can be installed on the building exterior as well as indoors. CAP-2409 delivers reliable performance under all climatic conditions, withstanding temperatures between -30°C ~ +80°C. Driverless Operation - The self-contained CAP-2409 unit can be mounted on a pole or wall. With the included PoE, CAP-2409 can be powered over the standard Ethernet CAT 5 cable. Optional external N-Type connector is available for high gain antennas. It has built-in Atheros SoC chipset that is compatible with most of today's WiFi base radio. CAP-2409 delivers outstanding network availability and end-to-end system throughput. 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.

❖ Features at a glance

- Compatible with IEEE 802.11b/g & IEEE 802.3 standards
- Ideal for wireless LAN access in all indoor and outdoor areas.
- Power over Ethernet cable using PoE injector
- Auto fall back data rate for long distance communication in noisy environments
- High standard watertight (IP66) and weatherproof
- Wireless security with 64/128Bit WEP, WPA (TKIP or AES), WPA2 (TKIP or AES), and MAC Access Control.
- Bandwidth control for up / down data stream, WMM (wireless multimedia) support
- Configurable modes: AP, AP Client, WDS, AP Bridge
- Static and dynamic NAT routing
- DHCP server and client
- Wireless site survey
- Web base management system
- Firmware can be remotely upgraded
- Work with all operating system. driver-less operation with true 'Plug and Play'
- NTP client and country code settings
- Capable of handling heavy data payloads such as MPEG video streaming
- Excellent output power spreads the operation distance
- Let users transfer data between two buildings or multiple buildings
- Built-in lightening protection
- Make wireless AP and bridge mode simultaneously as a wireless repeater
- Delivers reliable, top performance in the most demanding environments
- Flexible access point locations and cost savings
- WPA/IEEE 802.1x Authenticator support
- WDS (Wireless Distribution System)
- Wide temperature range and robust mechanical design
- High speed data rate up to 54Mbps
- High output power up to 25 dBm (400mW for 11b)
- Point-to-point, point-to-multipoint wireless connectivity
- System status and log reports
- SNMP support
- Hardware watchdog

Outdoor High Power CPE/AP/Bridge/Router with Integrated Antennas

Model No.	CAP-2409
Ethernet Connection	IEEE 802.3 100BaseT (RJ-45)
Standard	IEEE 802.11b/g (Wireless LAN), IEEE802.1x, IEEE802.3(Ethernet),IEEE802.3u
Wireless & Wired Security Functions	Secure with 64/128Bit WEP, WPA (TKIP or AES), WPA2 (TKIP or AES), 802.1x, and MAC Access Control.
Operation Functions	DHCP Server and Client, Static and Dynamic NAT Routing Wireless Site Survey, Clone MAC address Configuration Backup and Restore
Operation Modes	AP Client (Ethernet to WLAN Bridge), WDS (Wireless Repeater; P-to-P, P-to-MP Bridge)
Management	Web base Management System
External Power Jack	12 VDC with passive Power over Ethernet
External Bulkhead connector	External RJ-45 Bulkhead connector
LEDs	Power, wireless, and Ethernet.
Mounting	Wall mounting kit and Mast mounting kit
CPE Weight	2.6 lbs (1.2 Kg) with mounting kits; 1.3lbs(0.6Kg) if unit only
Dimension	H=4.72"/12cm W=4.72"/12cm, D=2.56"/6.5cm
Temperature Range	-30°C to 80°C (-22°F to 176°F)
Relative Humidity	95% @ 55°C
Approvals	FCC Part 15/UL (for a/b/g model)
Package Content	CAP-2409, POE Injector x 1 , Power Code x 1 , Mounting Kit (with screw package) x 1, Weatherproof connector x 1 , CD-ROM x 1
Antenna Characteristics	
Gain	9dBi
Frequency Range	2412 – 2484 GHz
Radio Characteristics	
Radio Scheme	802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11b: DSSS (CCK, DQPSK, DBPSK)
Chipset	Atheros AR2313A + AR2112
Platforms	180MHz MIPS 4Kc, 32MB 16-bit SDRAM; 8MB Flash
Frequency Range	2.412 GHz ~2.484GHz
Output Power	802.11g: 25dBm @ 6Mbps, 22dBm @ 54Mbps. 802.11b: 25dBm @ 1Mbps, 25dBm @ 11Mbps Max. 34dBm or 2.54 Watts EIRP of power
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	Up to 10+ km/6.25+ miles for point-to-multi-points (P2MP); 13+ km/8+ miles for point-to-point (P2P). Possible average link distance up to 12+ miles. All above data is dependent on terrain and base radio
Receiver Sensitivity	802.11g: 54Mbps@-66dBm, 48Mbps@-71dBm, 36Mbps@-78dBm, 24Mbps@-80dBm, 18Mbps@-81dBm, 12Mbps@-82dBm, 9Mbps@-85dBm, 6Mbps@-87dBm 802.11b: 11Mbps@-82dBm, 5.5Mbps@-86dBm, 1,2Mbps@-90dBm