



## CPE-A2416

### 802.11b/g Hi-Power SuperG108Mbps Outdoor CPE

- ✦ Wireless LAN 802.11b/g compliant, Atheros solution.
- ✦ 20, 27, 30, 33, or 36dBm Output Power
- ✦ Four operating modes support: Wireless Client, AP, Repeater and Wireless Bridge
- ✦ Weatherproof solid luxury enclosure with 16dBi patch antenna
- ✦ Strong network security with 64/128/152-bit WEP encryption and WPA
- ✦ Provides "RSSI-received signal strength" indication for AP, Repeater and Wireless Bridge
- ✦ Options for Ethernet design IEEE802.3af compliant



### 802.11b/g CPE with 108Mbps Atheros

CPE-A2416 outdoor family is a 802.11 b/g all-in-one device that is designed to operate in the 2.4GHz band. The device with high performance Atheros 11b/g radio allows the transmission distance up to over 30 Kilometer (802.11b mode) in open space and good weather condition. It is also suitable for WISP backbone applications with its Atheros 108Mbps Super G roaming capability. The CPE with weatherproof solid luxury enclosure made by UV resistant & Aluminum and built-in 16dBi patch antenna offers a cost-effective solution to make Point-to-Point.

### All-in-One Device with Integrated 16 dBi Antenna

CPE-A2416 is an all-in-one device with integrated Power Over Ethernet (PoE), 16dBi patch antenna, and the special designed water-proof cap for Ethernet RJ-45 connector to access long distance of network without extra power adapter and extra booster to enlarge the output power. A complete package with a DC injector unit, 48 V DC Power adapter, water-proof cap, and standard pole mount kit are included.

### Multiple Operation Modes

The CPE-A2416 family complies with 802.11b and 802.11g standard. Through the Web management interface, you can run in Wireless Client, AP, Repeater and Wireless Bridge (WDS). A multiples security functions include SSID hiding, access Control List, WEP based encryption (64, 128, 152 bits), enhanced Security with 802.1x using a primary and a backup Radius Server with/without dynamic WEP keys, WPA-PSK, and WPA to prevent unauthorized access. Advanced software management allows monitoring current Rx/Tx Data rate status, noise level, and signal strength. It also can be easy configuration and monitoring through the use of a Web-browser based Web UI, and SNMP commands from a remote SNMP management station, and Locator utility for users to automatically discover the device.

### 20, 27, 30, 33 or 36dBm

According to power configurations, 5 different modes are available with CPE-A2416 family as below:

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Model	Power	Built-in Antenna
CPE-A2416-20	100mW (20dBm)	16 dBi
CPE-A2416-27	500mW (27dBm)	16 dBi
CPE-A2416-30	1W (30dBm)	16 dBi
CPE-A2416-33	2W (33dBm)	16 dBi
CPE-A2416-36	4W (36dBm)	16 dBi

### Accessories



PoE DC Injector



48V Power Adapter & Plug



Mount Kits



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## Specification

### Hardware

- 8MB SDRAM
- 2MB FLASH
- One Atheros 802.11b/g RF Radio

### Interfaces

- 10/100Mbps auto crossover Ethernet WAN Port (RJ45)  
(For connecting to 3rd party network device)

### Standard

- IEEE802.11b, 802.11g
- Atheros Proprietary Super G mode
- IEEE802.11af, 802.3, 802.3u

### Frequency Band

- America/FCC: 2.412~2.462GHz (11 channels)
- Europe CE/ETSI: 2.412~2.742GHz (13 channels)

### Modulation Technology

- IEEE802.11b: CCK, DQPSK, DBPSK
- IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM

### Data Rate

- 802.11b: 1, 2, 5.5, 11 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

### Transmit Power

- CPE-A2416-20 : 20dBm
- CPE-A2416-27 : 27dBm
- CPE-A2416-30 : 1W
- CPE-A2416-33 : 2W
- CPE-A2416-36 : 4W

### Sensitivity

- -86dBm @ 11Mbps, PER<8%; -64dBm @ 54Mbps, PER<10%

### Operation Modes

- Wireless Client / AP/ Repeater / Wireless Bridge (WDS) PnP

### Security

- 64-bit/128-bit/152-bit WEP encryption
- Wi-Fi Protected Access (WPA)

### Software / Firmware

- Site Survey
- DHCP Client
- Suppressed SSID
- Wireless access control by MaC address (deny or accept)
- WPA Support (WPA personal and enterprise)
- Web-based configuration via popular browser (MS IE, Netscape...)
- Windows "Locator" program to help find IP in DHCP client mode IP
- Firmware upgrade and configuration backup via Web
- Reset to default by WebUI
- SNMP V1/V2

### Antenna Type

- Integrated 16dBi flat panel antenna
- 35 degree H-Plane (Horizontal)
- 35 degree E-Plane (Vertical)

### Dimension & Weight

- 288 \*275 \*110mm (2.8KGS)

### Environment

- Operating Temperature:-20 ~ +70°C

### Enclosure

- IP67 UV resistant & aluminum weatherproof enclosure

### Power Adapter

- 100-240V(50-60Hz) universal AC adapter (DC 48V)
- Power over Ethernet DC injector included

### Mounting

- Pole Mounting

### Option

- Power over Ethernet design compliant to IEEE802.3af

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