



## CPE-A2412T

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

- 802.11b/g All-In-One Outdoor CPE, Atheros Solution
- 200mW (23dBm) and 500mW (27dBm) Output Power
- Client Bridge, Client Router, AP, AP Router, and Repeater Modes
- WPA / WPA2 / 802.1x Support
- Support 20Mhz, 10Mhz, 5Mhz Frequency Range
- Weather proof UV resistant enclosure with 12dBi antenna
- Option for built-in N female connector for higher gain antenna



#### 802.11b/g CPE with Atheros Solution

CPE-A2412T Outdoor CPE is an 802.11 b/g all-in-one device that is designed to operate in the 2.4GHz band. The device with integrated 12dBi patch antenna and high performance Atheros 11b/g radio allows the longest transmission distance. The device in weatherproof enclosure made by Anti-UV material offers a cost-effective solution for hotspot to make Point-to-Point and Point to Multi-Point solution

#### All-In-One Device with Integrated 12dBi Antenna and optional N-Female Connector

CPE-A2412T is an all-in-one device with integrated Power Over Ethernet (PoE), 12dBi 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. Optional built-in N-Female connector provides higher gain 2.4GHz antenna, or type of antenna on your request. A complete package with a DC injector, 12V DC Power adapter, water-proof cap, and standard pole mount kit are included.

#### Software

The CPE-A2412T complies with IEEE802.11b/g 2.4GHz specifications. Through the Web management interface, you can run in Client Bridge, Client Router, AP, AP Router, or Repeater. Based on Atheros radio Technology, the system features advanced algorithms for automatic selection of modulation schemes to maximize the data rate and improve spectral efficiency. Combining selectable channel width with advanced interference management, CPE-A2412T allows service provider to cover an extensive geographical area with minimum number of channels. Software features such as WDS setting, Bridge VLAN setting, filtering, SNMP, web management, advanced QOS, DHCP, firewall, PPPoE, high grade encryption, port forwarding, and Bandwidth control make the CPE-A2412T one of the most flexible and cost effective broadband wireless CPE/AP Platform.

#### 23, or 27dBm Output Power

According to power configurations & N Female Connector, 4 different Models are available with CPE-A2412T family as below:

Model	Power	Built-in Antenna	Built-in N Female Connector
CPE-A2412T-23P	200mW (23dBm)	12 dBi	No
CPE-A2412T-23PN	200mW (23dBm)	12 dBi	Yes
CPE-A2412T-27P	500mW (27dBm)	12 dBi	No
CPE-A2412T-27PN	500mW (27dBm)	12 dBi	Yes

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### Accessories



PoE DC Injector



12V Switch Power



Pole Mount Kit

## Specification

### Hardware

- Atheros AR2315
- H/W watch dog
- 8MB Flash
- 32MB SDRAM

### Interfaces

- 100 base-T Ethernet (RJ-45) with PoE
- Option for built-in N-Type connector for higher gain antenna

### Standard

- IEEE802.11b, 802.11g
- IEEE802.3u (10/100BaseTx)

### Frequency Band

- USA (FCC): 2.412GHz ~ 2.462GHz (CH1 ~ CH11)
- Europe (ETSI): 2.412GHz ~ 2.472GHz (CH1 ~ CH13)
- Japan (TELEC): 2.412GHz ~ 2.484GHz (CH1 ~ CH14)

### Modulation Technology

- BPSK, QPSK, CCK

### Data Rate with Automatic Fallback

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

### Transmit Power

- CPE-A24 12T-23P/23PN : 23 dBm  $\pm$  1 in 11b/g
- CPE-A24 12T-27P/27PN : 27dBm  $\pm$  1 in 11b/g

### Sensitivity

- **IEEE802.11g**
  - 54Mbps (64QAM): ~-74dBm
  - 48Mbps (64QAM): ~-77dBm
  - 36Mbps (16QAM): ~-82dBm
  - 24Mbps (16QAM): ~-85dBm
  - 18Mbps (QPSK): ~-90dBm
  - 12Mbps (QPSK): ~-91dBm
  - 9Mbps (BPSK): ~-93dBm
  - 6Mbps (BPSK): ~-94dBm
- **IEEE802.11b**
  - 1, 2Mbps (BPSK, QPSK): -96dBm
  - 11Mbps (CCK): -91dBm

### Operation Modes

- Client Bridge, Client Router, AP, AP Router, or Repeater

### Security

- WEP 64/128
- 802.1x Support
- WPA-PSK
- WPA
- Hide SSID in Beacons
- MAC Filter
- Bandwidth Control
- Layer2 Isolation
- VLAN Tunneling Support

### Management

- Web-Based Configuration
- Telnet Configuration
- Upgrade firmware via web-browser
- PPPoE
- QoS
- Bandwidth Control
- Selectable Channel width-5MHz, 10MHz, or 20MHz
- SNMPv2c/v3

### Antenna Type

- Integrated 12dBi flat panel antenna

### Dimension & Weight

- 130 x 145x 85mm (0.7KGS)

### Environment

- Operating Temperature:-40 ~ +85°C
- Humidity: 5% ~95% non-condensing

### Enclosure

- IP65 UV resistant weatherproof enclosure

### Power Adapter

- PoE / DC 12V / 1A , AC adapter 100V ~ 240V

### Mounting

- Pole Mounting