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**2.4 GHz MIMO 300M**

**Auto-Self Connective WiFi coverage CPE**

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## Overview

### Introduction

AirLink's ASC WiFi coverage CPE (Auto-Self & Self-Selecting Connective) Slave & Master with high power performance & an easy program managed support 2.4GHz 300Mbps wireless communication standards, with a long range high speed communication.

These models are suitable for more applications, capable of being powered from 24V PoE. The built in antenna is 2.4GHz 14dBi Dual-polarization antenna, the unit supports an operating temperature of  $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ .

Units come with the Auto-self and Self-selecting connective features with hardware RSL LED to select best position visible

### Features

#### System interface/Performance

- ⇒ Point-to-Point or Point-to-multipoint
- ⇒ IEEE 802.11bgn Compliant
- ⇒ IEEE 802.11i / 802.1x Authentication
- ⇒ Maximum data Rate: 300Mbps
- ⇒ Supports QoS

#### Power Supply

- ⇒ 24V 1A adaptor

#### Operating Temperature

- ⇒ Standard Operating Temperature model:  $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- ⇒ Case/Installation IP65 Outdoor Waterproof Housing Design
- ⇒ Built-in 2.4GHz 14dBi Dual-polarization antenna
- ⇒ Adjustable Antenna Elevation ( optional CPE holder)

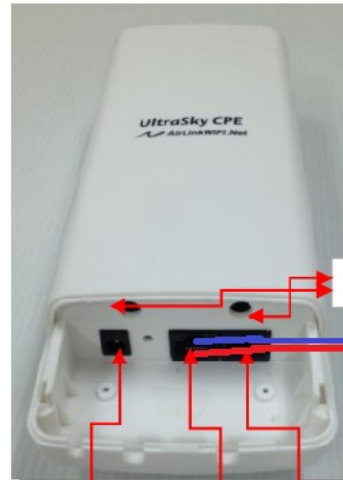
#### Applications suit for **WiFi coverage**

- Farms
- Boats , Marine & Yachts
- Home wifi
- Schools campus wifi
- Parking Spaces
- Parks
- RV's

## Hardware Description

\* Physical Dimension 235 (Long) × 88(Wide) ×40(High)mm

### ASC-Master / Slave hardware details



Optional for external antenna

PoE 24V & data

Power Jack

LAN/WAN

### ASC-Slave LED Indicators



Led 1 ("on") <-65dBm

Led 1&2 ("on") -55 to -65 dBm

Led 1,2&3 ("on") -45 to -54dBm

All LED ("on") >-44dBm

CPE holder optional

⇒ Using this holder can adjust antenna angle



## Basic Settings

### 1.1 System Requirements

- Before configuration, please make sure your system meets the following requirements :
- A computer coupled with 10/ 100 Base-TX adapter .
- Configure the computer with a static IP address of 192.168.0.x, as the default IP address of Auto-Self Connective CPE is 192.168.0.1. (X cannot be 0, 1, nor 255)
- A Web browser on PC for configuration such as Microsoft Internet Explorer 6.0 or above, Netscape or Firefox.

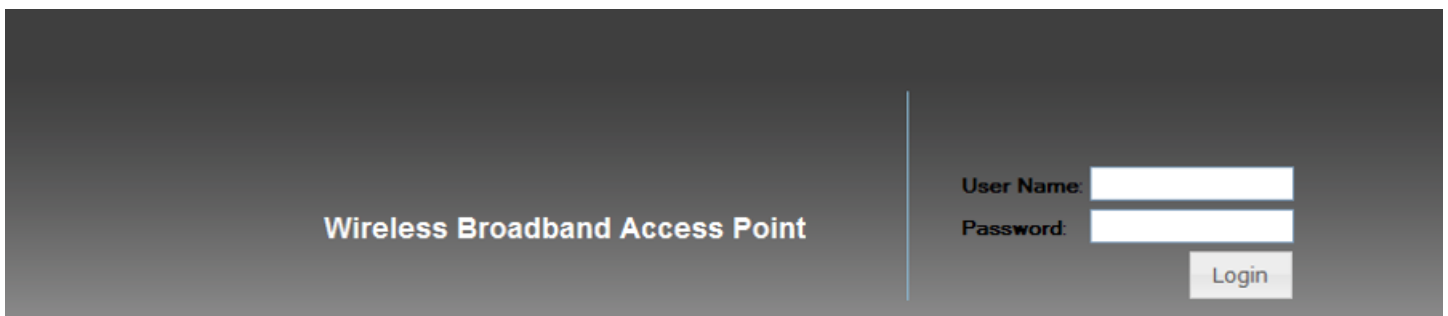
### 1.2 How to Login the Web-based Interface

The Auto-Self Connective CPE provides you with user-friendly Web-based management tool.

Open IE and enter the IP address (Default: **192.168.0.1**) of Auto-Self Connective CPE into the address field.

You will see the login page as below.

Enter the username (Default: **admin**) and password (Default: **admin**) respectively and click “**Login**” to login the main page



Wireless Broadband Access Point

User Name:

Password:

Login

### Login Page

## A. Master Preconfigured Client Access Point

- 1) **ASC-Master** CPE SSID at “Airlinkspot” as AP broadcast mode
- 2) **ASC-Slave** CPE auto scan ASC-Master CPE SSID be a **Auto-Self Connective Network Group, Self-Selecting best Master** with hardware RSL LED to be best position visible
- 3) **Default password : 12345678** ( this can change by user side)

### WLAN Status

Operation Mode: AP(Enabled)

Channel-Band: 11NGHT20 channel(6)

Rate: 144.4 Mb/sMbps

SSID: AIRLINKSPOT (Broadcast)

BSSID: 00:23:d3:03:08:6a

Encryption: WPA2-PSK

MAC Address: 00:23:d3:03:08:6a

### Device Info

Product Type: CPE

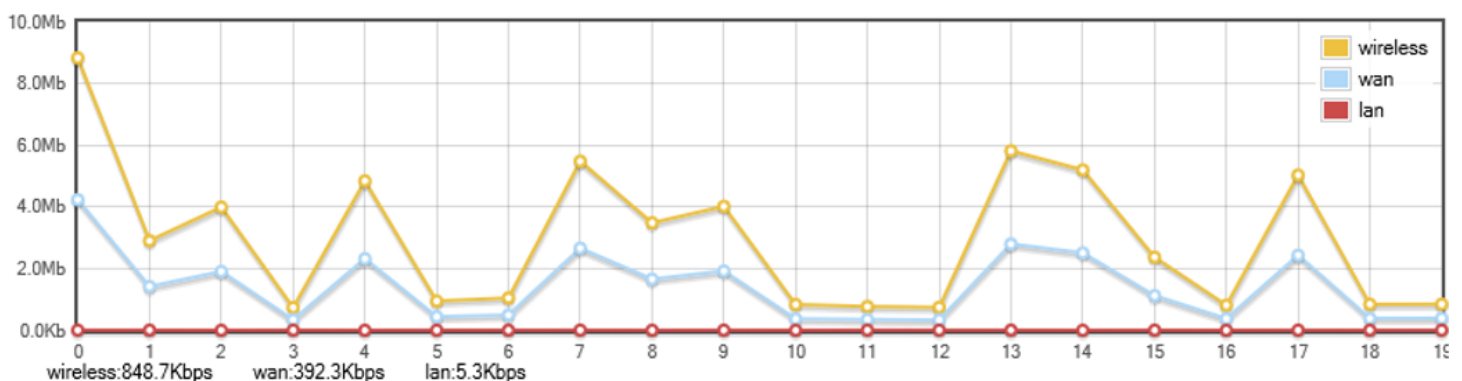
Firmware Version: Airlink-AP300M-3.1.1

Hardware Version: v1.0

Build Time: 20170308

System uptime: 2hour 1minutes 7second

### Traffic Statistics



## B. Slave Preconfigured Client Access Point

- 1) ASC-Slave CPE auto scan ASC-Master CPE SSID be a **Auto-Self Connective a Network Group, Self-Selecting** with hardware RSL LED to be best position visible
- 2) With DHCP function provided 3 of SSID name for user to use
- 3) Default password : **zxcvb1234** ( this can change by user side)

### VAP network information

2.4G

| Status                              | SSID                                             | WMM                                 | Wireless Security                          |      |
|-------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------|------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> AIRLINKSPOT  | <input checked="" type="checkbox"/> | WPA2-PSK; Encryption: AES; Key: zxcvb1234; | Edit |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> AIRLINKSPOT1 | <input checked="" type="checkbox"/> | WPA2-PSK; Encryption: AES; Key: zxcvb1234; | Edit |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> AIRLINKSPOT2 | <input checked="" type="checkbox"/> | WPA2-PSK; Encryption: AES; Key: zxcvb1234; | Edit |

Apply Changes

Reset

### LAN Status

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: N/A

MAC Address: 00:23:d3:03:08:53

DHCP Server: Enabled

DHCP Range: 192.168.1.100~192.168.1.200

### DHCP Client List

| No | IP Address    | MAC Address       | Time Expired(sec) | Refresh |
|----|---------------|-------------------|-------------------|---------|
| 0  | 192.168.1.100 | 00:e0:4c:00:03:46 | 3376              |         |
| 1  | 192.168.1.101 | bc:30:7d:4e:bc:3e | 3166              |         |

## 1) Master Connected Status

### Wireless Clients

Refresh

| MAC Address       | IP Address  | CCQ | Distance | Signal Strength | TX (Mbps) | TX/RX Packets | Link Time(s) | WMM     |
|-------------------|-------------|-----|----------|-----------------|-----------|---------------|--------------|---------|
| 00:23:D3:03:08:54 | 192.168.1.1 | 97% | 1500m    | -60             | 74        | 15/37         | 131          | Enabled |

Connection Type: (DHCP) -Connected

IP Address: 192.168.2.104

Default Gateway: 192.168.2.254

DNS: 168.95.1.1

Internet connect time: 43minutes 55second

### LAN Status

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

MAC Address: 00:23:d3:03:08:53

DHCP Server: Enabled

DHCP Range: 192.168.1.100~192.168.1.200

### DHCP Client List

| No | IP Address    | MAC Address       | Time Expired(sec) |
|----|---------------|-------------------|-------------------|
| 0  | 192.168.1.100 | 00:e0:4c:00:03:46 | 1871              |
| 1  | 192.168.1.101 | bc:30:7d:4e:bc:3e | 3453              |

### Wireless Status

Operation Mode: Station(Connected)

Scan AP

Transmit CCQ: 95.1%

Noise floor: -95dbm

Link Quality/Signal Strength:  100%(-52dBm)

Max Distance: 2550m

Channel-Band: 11NGHT20 channel6

Max TX Rate, Mbps: 144.4 Mb/s

SSID: AIRLINKSPOT

BSSID: 00:23:d3:03:08:6a

MAC Address: 00:23:d3:03:08:54

Encryption: WPA2-PSK

### Wireless Clients

| MAC Address       | IP Address    | CCQ   | Distance | Signal Strength | TX (Mbps) | TX/RX Packets | Link Time(s) | WMM     |
|-------------------|---------------|-------|----------|-----------------|-----------|---------------|--------------|---------|
| BC:30:7D:4E:BC:3E | 192.168.1.101 | 97.7% | 2100m    | -58             | 71        | 1502/1968     | 231          | Enabled |

## 2) Slave connected status

### WLAN Status

Operation Mode: Station(Connected)

Link Quality/Signal Strength:  100%(-53dBm)

Channel-Band: 11NGHT20 channel(6)

Rate: 144.4Mbps

SSID: AIRLINKSPOT

BSSID: 00:23:d3:03:08:6a

Encryption: WPA2-PSK

MAC Address: 00:23:d3:03:08:54

### Wireless Clients

[Refresh](#)

| MAC Address       | IP Address    | CCQ   | Distance | Signal Strength | TX (Mbps) | TX/RX Packets | Link Time(s) | WMM      |
|-------------------|---------------|-------|----------|-----------------|-----------|---------------|--------------|----------|
| 00:E0:4C:00:03:46 | 192.168.1.100 | 92.6% | 2400m    | -53             | 51        | 536753/483834 | 7261         | Disabled |
| BC:30:7D:4E:BC:3E | 192.168.1.101 | 98%   | 2250m    | -58             | 71        | 1698/2203     | 274          | Enabled  |

## LAN SETTING

- 1) WAN setting DHCP fixed
- 2) LAN of Multi SSID can be edit by end users

### VAP network information

2.4G

| Status                              | SSID                                             | WMM                                 | Wireless Security                          |                      |
|-------------------------------------|--------------------------------------------------|-------------------------------------|--------------------------------------------|----------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> AIRLINKSPOT  | <input checked="" type="checkbox"/> | WPA2-PSK; Encryption: AES; Key: zxcvb1234; | <a href="#">Edit</a> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> AIRLINKSPOT1 | <input checked="" type="checkbox"/> | WPA2-PSK; Encryption: AES; Key: zxcvb1234; | <a href="#">Edit</a> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> AIRLINKSPOT2 | <input checked="" type="checkbox"/> | WPA2-PSK; Encryption: AES; Key: zxcvb1234; | <a href="#">Edit</a> |

[Apply Changes](#)
[Reset](#)



### *Packaging contents*

- 1) 1\*ASC-Master CPE
- 2) 1\*ASC-Slave CPE
- 3) 2\*24V PoE adaptor
- 4) 1\* User guide

### *Support*

For supporting please send email at [support@airlinkwifi.net](mailto:support@airlinkwifi.net)