



Auranet

## Business Wi-Fi Solution

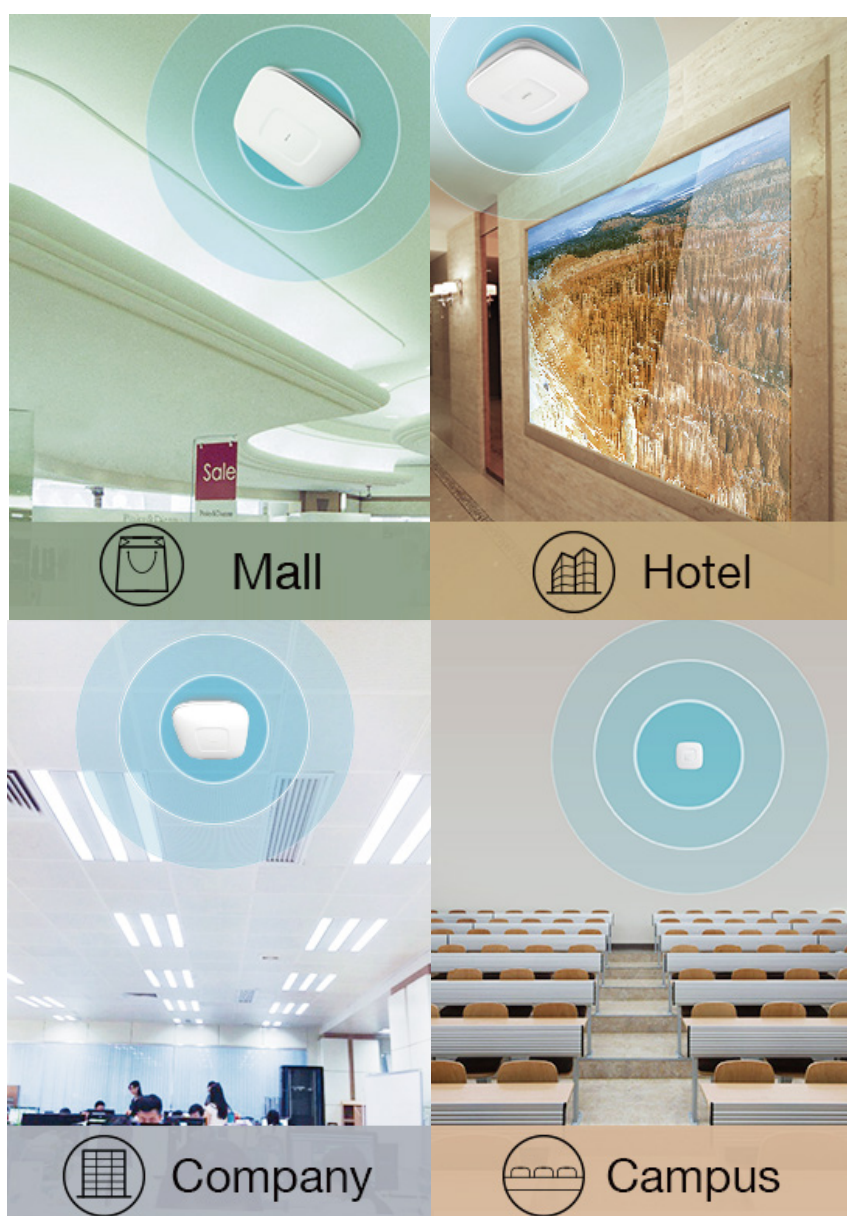
MODELS: AC500, AC50, CAP1750, CAP1200,  
CAP300, CAP300-Outdoor



# Auranet Solution

## Business Integrated Wi-Fi Solution

Experience the very latest in business-class Wi-Fi technology with TP-Link's Auranet CAP series access points and wireless controllers. Equally capable in both indoor and outdoor settings, our access points provide a secure, easy-to-deploy network solution that guarantees broad Wi-Fi coverage. The wireless controller allows users to effortlessly manage and monitor hundreds of access points, all at the same time. With the ability to control the entire network, centralized Wi-Fi management has never been so easy and efficient. Scalable with exceptional performance in high-density client environments, TP-Link's Business Integrated Wi-Fi Solution is ideal for offices, hotels, malls, campuses and more.



# Professional AC Products

## Management Made Easy

### Centralized Management

Configure and manage all CAPs in the network at the same time. Selected parameters will be automatically applied to CAPs when they connect to the network, achieving true plug and play functionality.

### Flexible and Scalable

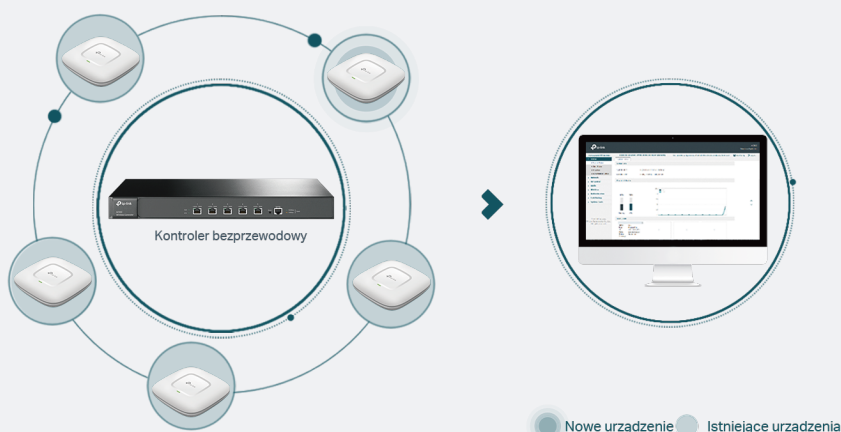
Manage up to 500 CAPs with each wireless controller and expand your network at any time. With no license fees involved, adding access points and wireless controllers to the network is simple and affordable. Controllers can be easily integrated into an existing wireless network by connecting to the switch or router.

### Secure

TP-Link's wireless controllers provide comprehensive wireless security for Wi-Fi networks. Multiple SSIDs can be mapped to different Tag VLANs in order to isolate the SSIDs in Layer 3. Captive Portal authentication allows you to block clients from accessing the network until the controller has verified their identities. MAC address authentication determines the identity of the legal devices.

### Stable

Dedicated processors and sophisticated hardware guarantee the stability of the entire network. Multiple wireless controllers may be deployed in a Dual-Link Backup configuration. If one wireless controller fails, another can take over to ensure the network is unaffected.



## Advanced Functions

### Load Balance

Supports load balancing based on the number of users. When a large number of clients connect to a particular CAP, the controller redirects some of them to other access points in real time. Devices with a weak wireless signal are automatically rejected or removed to optimize network performance.

### Band Steering

Dual-band CAPs attempt to steer clients to the less congested, faster 5GHz wireless band

### Fast Roaming\*

Automatically switches devices from one AP to the other with a smooth transition. This allows sensitive applications like VoIP and video conferences to go uninterrupted.

### MU-MIMO\*

Simultaneously sends data to multiple devices for faster speed

### Airtime Fairness\*

Improves wireless throughput by limiting access time of low speed clients.

Note that functions with \* are only supported on CAP1200

## CAP Products Features

### Easy Ceiling/Wall Mounting

An easy-mount chassis makes installation on a wall or ceiling surface simple and fast. With an elegant ceiling lamp design, the Auranet CAP series access points blend in seamlessly with most interior design styles.

### Power over Ethernet (PoE)

With IEEE 802.3af/at PoE or Passive PoE supported, you can use Ethernet cables to transfer both electrical power and network data, making deployment more flexible.

### Business-Class Hardware Design

High-powered amplifiers, professional-standard antennas, and specially designed RF shields ensure a superior wireless performance.

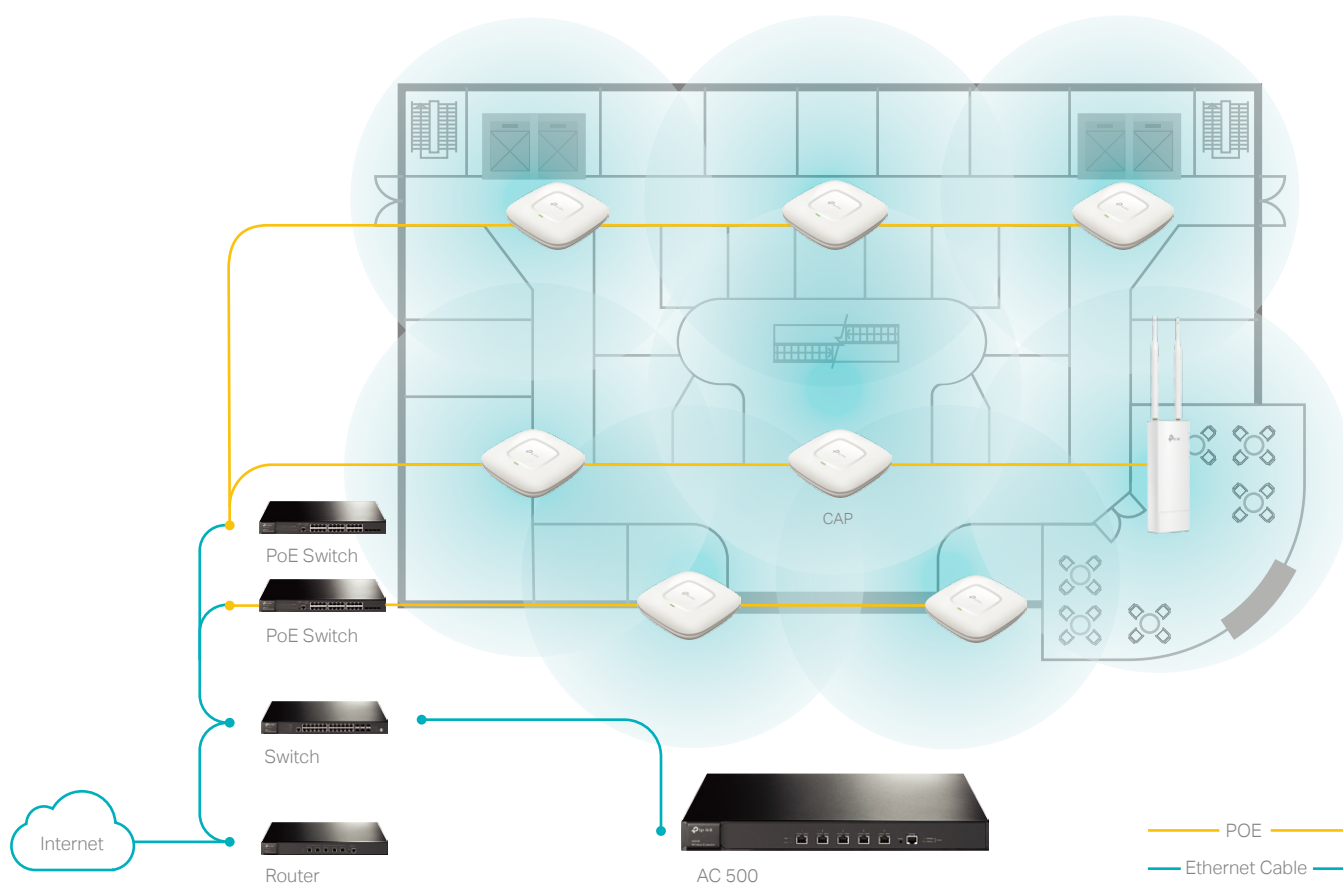
## Two Modes, One Device

Manage CAPs independently in FAT mode or all together in FIT mode, providing a range of network possibilities. A sliding switch makes changing between modes effortless. FIT mode allows you to take complete control of hundreds of CAPs with the wireless controller. Easily extend the network by adding more CAPs when required.

## Exceptional Wi-Fi Performance

802.11ac standard Wi-Fi and MIMO technology combine to achieve outstanding network speeds and reliability.

### Typical Topology



# Specification of AC products

|                     |                               |                                                                                                                                                                                        |                                                                                     |
|---------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Product Picture     |                               |                                                                                                      |  |
| Model               |                               | AC500                                                                                                                                                                                  | AC50                                                                                |
| Product Description |                               | AC500 Wireless Controller                                                                                                                                                              | AC50 Wireless Controller                                                            |
| Main Design         | processor                     | 1GHz Dual-core MIPS64 Network Dedicated Processors                                                                                                                                     | 650MHz Network Dedicated Processor                                                  |
|                     | Memory                        | 256MB DDR3*2, 32MB Flash*1                                                                                                                                                             | 128MB DDR2*1, 16MB Flash*1                                                          |
|                     | Interfaces                    | Gigabit Ethernet Port*5<br>Console Port*1                                                                                                                                              | 10/100Mbps Ethernet Port*5                                                          |
|                     | Management Scale              | Up to 500 APs                                                                                                                                                                          | Up to 50 APs                                                                        |
| AP Management       | Support AP                    | TP-Link Auranet CAP Series AP                                                                                                                                                          |                                                                                     |
|                     | AP Automatic Discovery        | Yes                                                                                                                                                                                    |                                                                                     |
|                     | AP Unified Configuration      | Yes                                                                                                                                                                                    |                                                                                     |
|                     | AP Reboot Schedule            | Yes                                                                                                                                                                                    |                                                                                     |
|                     | AP Batch Firmware Upgrade     | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Grouped AP management         | Yes                                                                                                                                                                                    |                                                                                     |
|                     | AP LED ON/OFF                 | Yes                                                                                                                                                                                    |                                                                                     |
|                     | L3 Management                 | Yes                                                                                                                                                                                    |                                                                                     |
| Monitoring          | System                        | Yes                                                                                                                                                                                    |                                                                                     |
|                     | AP Status                     | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Client Status                 | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Authenticated User Status     | Yes                                                                                                                                                                                    |                                                                                     |
| Wireless Function   | Multi-SSID                    | 32 SSIDs                                                                                                                                                                               | 16 SSIDs                                                                            |
|                     | Load Balance                  | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Band Steering                 | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Fast Roaming*                 | 802.11k                                                                                                                                                                                |                                                                                     |
|                     | Airtime Fairness*             | Yes                                                                                                                                                                                    |                                                                                     |
|                     | MU-MIMO*                      | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Rate Limit                    | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Auto Channel Adjustment       | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Transmit Power Adjustment     | Yes                                                                                                                                                                                    |                                                                                     |
|                     | DHCP Server                   | Yes                                                                                                                                                                                    |                                                                                     |
|                     | WMM                           | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Communication protocol        | CAPWAP                                                                                                                                                                                 |                                                                                     |
| Security            | Encryption                    | WPA-PSK/WPA2-PSK(AES/TKIP)/WPA/WPA2                                                                                                                                                    |                                                                                     |
|                     | AP Isolation                  | Yes                                                                                                                                                                                    |                                                                                     |
|                     | SSID Isolation                | Yes                                                                                                                                                                                    |                                                                                     |
|                     | SSID to VLAN Mapping          | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Authentication Function       | Yes                                                                                                                                                                                    |                                                                                     |
| System Management   | Captive Portal Authentication | Yes                                                                                                                                                                                    |                                                                                     |
|                     | MAC Authentication            | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Web-based Management          | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Configuration Backup/Import   | Yes                                                                                                                                                                                    |                                                                                     |
| Hardware Design     | Ping/Tracert Tool             | Yes                                                                                                                                                                                    |                                                                                     |
|                     | System Log                    | Yes                                                                                                                                                                                    |                                                                                     |
|                     | Power Supply                  | 100~240V AC,50/60Hz                                                                                                                                                                    |                                                                                     |
|                     | Dimensions (W × D × H)        | 17.3 × 8.7 × 1.7 in.( 440 × 220 × 44 mm)                                                                                                                                               | 8.2 × 5.0 × 1.0 in. (209 × 126 × 26 mm)                                             |
| Environment         |                               | Operating Temperature: 0°C~40°C (32°F~104°F)<br>Storage Temperature: -40°C~70°C (-40°F~158°F)<br>Operating Humidity: 10%~90% non-condensing<br>Storage Humidity: 5%~90% non-condensing |                                                                                     |

Functions with \* are only supported on CAP1200

# Specification of CAP products

|                                      |                                                                                                                                                                                        |                                                                                   |                                                                                    |                                                                                                                                                                                           |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Picture                      |                                                                                                       |  |  |                                                                                                        |
| Model                                | CAP1750                                                                                                                                                                                | CAP1200                                                                           | CAP300                                                                             | CAP300-outdoor                                                                                                                                                                            |
| Product Description                  | AC1750 Wireless Dual Band Gigabit Ceiling Mount Access Point                                                                                                                           | AC1200 Wireless Dual Band Gigabit Ceiling Mount Access Point                      | 300Mbps Wireless N Ceiling Mount Access Point                                      | 300Mbps Wireless N Outdoor Access Point                                                                                                                                                   |
| Wireless Frequency                   | 2.4GHz & 5GHz                                                                                                                                                                          |                                                                                   | 2.4GHz                                                                             |                                                                                                                                                                                           |
| Wireless Standard                    | IEEE 802.11b/g/n/a/ac                                                                                                                                                                  |                                                                                   | IEEE 802.11b/g/n                                                                   |                                                                                                                                                                                           |
| Maximum Data Rate                    | Up to 450 Mbps(2.4GHz)+ 1300Mbps(5GHz)                                                                                                                                                 | Up to 300 Mbps(2.4GHz)+ 867Mbps(5GHz)                                             | Up to 300 Mbps                                                                     |                                                                                                                                                                                           |
| Transmit Power                       | CE: <19dBm(2.4GHz), <23dBm(5GHz)<br>FCC: <30dBm(2.4GHz), <27dBm(5GHz)                                                                                                                  | CE: <20dBm(2.4GHz), <23dBm(5GHz)                                                  | CE: <20dBm<br>FCC: <26dBm                                                          | CE: <20dBm<br>FCC: <27dBm                                                                                                                                                                 |
| Ethernet Port                        | Gigabit Ethernet Port*1                                                                                                                                                                |                                                                                   | 10/100Mbps Ethernet Port*1                                                         |                                                                                                                                                                                           |
| Antennas                             | 2.4GHz: 3*4dBi 5GHz: 3*4dBi                                                                                                                                                            | 2.4GHz: 2*4dBi 5GHz: 2*5dBi                                                       | 2*4dBi                                                                             | 2*5dBi (External)                                                                                                                                                                         |
| PoE Mode                             | IEEE 802.3at                                                                                                                                                                           | IEEE802.3af                                                                       |                                                                                    |                                                                                                                                                                                           |
| Power Supply                         | PoE or external 12V DC/1.5A power supply                                                                                                                                               |                                                                                   | PoE or external 9V DC/0.6A power supply                                            | PoE                                                                                                                                                                                       |
| Physical Security Lock               | Kensington Lock Slot                                                                                                                                                                   |                                                                                   |                                                                                    | NA                                                                                                                                                                                        |
| Watch Dog                            | Yes                                                                                                                                                                                    | Yes                                                                               | Yes                                                                                | Yes                                                                                                                                                                                       |
| Certification                        | CE, FCC, RoHS                                                                                                                                                                          | CE, RoHS                                                                          | CE, FCC, RoHS                                                                      | CE, FCC, RoHS                                                                                                                                                                             |
| Mounting                             | Ceiling /Wall Mounting (Kits included)                                                                                                                                                 |                                                                                   |                                                                                    | Pole/Wall Mounting (Kits included)                                                                                                                                                        |
| Dimensions                           | 7.1 × 7.1 × 1.9 in. (180 × 180 × 47.5 mm)                                                                                                                                              |                                                                                   |                                                                                    | 8.2 × 3.7 × 1.7 in. (209 × 95 × 42.6mm)                                                                                                                                                   |
| System Requirements                  | Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows 10                                                                                                                          |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Environment                          | Operating Temperature: 0°C~40°C (32°F~104°F)<br>Storage Temperature: -40°C~70°C (-40°F~158°F)<br>Operating Humidity: 10%~90% non-condensing<br>Storage Humidity: 5%~90% non-condensing |                                                                                   |                                                                                    | Operating Temperature: -30°C~65°C (-22°F~149°F)<br>Storage Temperature: -40°C~70°C (-40°F~158°F)<br>Operating Humidity: 10%~90% non-condensing<br>Storage Humidity: 5%~90% non-condensing |
| Multiple SSIDs                       | 16                                                                                                                                                                                     |                                                                                   | 8                                                                                  |                                                                                                                                                                                           |
| FIT/FAT Mode                         | FAT/FIT                                                                                                                                                                                |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| MAC Address Filtering *              | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Wireless Isolation between Clients * | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Encryption *                         | WPA/WPA2-PSK, WPA/WPA2-Enterprise                                                                                                                                                      |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Guest Network *                      | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| WDS *                                | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Fast Roaming*                        | —                                                                                                                                                                                      | 802.11k                                                                           | —                                                                                  | —                                                                                                                                                                                         |
| Airtime Fairness*                    | —                                                                                                                                                                                      | Yes                                                                               | —                                                                                  | —                                                                                                                                                                                         |
| MU-MIMO*                             | —                                                                                                                                                                                      | Yes                                                                               | —                                                                                  | —                                                                                                                                                                                         |
| Automatic Channel Assignment *       | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Transmit Power Control *             | Adjust Transmit Power on dBm                                                                                                                                                           |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Maximum Client Connections Setting * | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Web-Based Management *               | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| System Logging *                     | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |
| Wireless Controller Support          | Yes                                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                                                                                                                           |

Note that features with \* are functioned in FAT mode. For features in FIT mode, please refer to AC product specifications.

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