

# Ceres Enterprise AP

## Product Description

WP882 is a high-stability, cost-effective 2.4 GHz +5GHz dual-frequency outdoor AP launched by Shenzhen Ceres Technology Co., Ltd. (hereinafter referred to as Ceres), designed for the enterprise market. This outdoor AP adopts waterproof, lightning protection, dust-proof and UV protection design, cast aluminum structure + integrated antenna structure, good thermal design support  $-40\sim 60$  degrees Wide temperature environment, suitable for all-weather applications. The stable performance makes it an ideal equipment for outdoor installation. WP833/WP882 adopts Qualcomm enterprise-class chip and equipment. The product supports PoE power supply or DC48V power supply, also supports 802.11a/b/g/n/ac wireless standard. WP882 supports 2.4G/5G dual-band (400Mbps + 867Mbps) wireless transmission rate. It can meet the needs of a variety of commercial wireless network, providing cost-effective wireless coverage.



### Functional Advantage

#### 802.11ac High Performance

Support 2.4 GHz +5GHz dual-frequency coverage, 5GHz provides 867Mbps access rate, effectively alleviating network pressure in the 2.4G band and meeting the high-speed access demands of most scenarios.

#### RF Management

Support automatic adjustment of power according to RF environment, automatically amplify or reduce RF power to achieve automatic detection and compensation of coverage area; support automatic and manual adjustment of channel to ensure AP is in optimal RF environment, providing users with optimal wireless access quality.

#### Rapid Service Deployment

Support deployment with AC local controllers and for late network change or upgrade, could switch seamlessly to avoid wasting resources.

#### Powerful Network Security Functions

Built-in firewall and VPN function, support filtering based on MAC address, IP address, protocol, and port, support 802.11i security standard, and effectively protect network security.

#### AP Load Balance

Supports load balance based on AP access users, traffic, and frequency band, and the system automatically boots users to the 5GHz band, maximizing network capacity and ensuring the best user access experience.

#### Flexible Deployment

Fully support the plug-and-play installation and deployment mode. Regardless of whether the network environment of the device is complex or not, whether the device is deployed in the public or private network, as long as the device can access AC, the system can automatically complete the AP configuration and achieve rapid network delivery.

## Automated Operation and Maintenance

Supports network-based status detection, which can monitor alarms in real time according to AP system status, and help to locate AP faults quickly. It supports batch upgrade based on AP location, model, version, etc., and can set the upgrade time arbitrarily to achieve automatic network operation and maintenance.

## Hardware Specification

Attribute	WP882
Dimensions	239mmX195mmX85mm
Interface	1*10/100/1000Mbps Ethernet port,1*SFP optical port(optional), 1*Console port
Rate	400Mbps+867Mbps
Antenna	Built-in antenna and external antenna (optional) (4 N type RF connector)
Wireless Transmit Power	<ul style="list-style-type: none"> <li>✧ 2.4GHz:</li> <li>✧ 11b11Mbps: 24dBm;</li> <li>✧ 11g6Mbps : 24dBm;</li> <li>✧ 11g54Mbps: 24dBm;</li> <li>✧ 11n MCS7-HT20: 24 dBm;</li> <li>✧ 11n MCS7-HT40: 24dBm;</li> <li>✧ 5GHz:</li> <li>✧ 11a6Mbps : 23dBm;</li> <li>✧ 11a54Mbps : 21dBm;</li> <li>✧ 11n MCS7-HT20: 21dBm;</li> <li>✧ 11n MCS7-HT40: 21dBm;</li> <li>✧ 11ac MCS8-VHT20 : 20dBm;</li> <li>✧ 11ac MCS9-VHT40 : 19dBm;</li> <li>✧ 11ac MCS9-VHT80 : 19dBm;</li> </ul>
Receiver Sensitivity	<ul style="list-style-type: none"> <li>✧ 2.4GHz:</li> <li>✧ 11b11Mbps: -90dBm;</li> <li>✧ 11g6Mbps: -90dBm;</li> <li>✧ 11g54Mbps: -75 dBm;</li> <li>✧ 11n MCS7-HT20: -71dBm;</li> <li>✧ 11n MCS7-HT40: -68dBm;</li> <li>✧ 5GHz:</li> <li>✧ 11a6Mbps: -90dBm;</li> <li>✧ 11a54Mbps : -75 dBm;</li> <li>✧ 11n MCS7-HT20: -71dBm;</li> <li>✧ 11n MCS7-HT40: -68dBm;</li> <li>✧ 11ac MCS8-VHT20: -65 dBm;</li> <li>✧ 11ac MCS9-VHT40: -63 dBm;</li> <li>✧ 11ac MCS9-VHT80: -61 dBm;</li> </ul>
CPU	Qualcomm processor

Memory	256M DDR3L
Flash	32M
Power supply	POE
Operating Temperature	-10~50℃
Storage Temperature	-40~85℃
Operating Humidity	5~95% (non condensation)
Consumption	<18W

## Software Specification

Attribute	WP882
WLAN	<ul style="list-style-type: none"> <li>Support IEEE801.11a/b/g/n/ac/ac wave2 standard</li> <li>Support dynamic rate adjustment</li> <li>Support channel automatic scanning and manual selection</li> <li>Support dynamic power adjustment and manual power adjustment</li> <li>Support intelligent roaming</li> <li>Support ShortGI in 20M, 40M, 80M mode</li> <li>Support Chinese SSID</li> <li>Support WMM, implementing data processing and forwarding based on application</li> <li>Support 5G access priority</li> <li>Support load balance based on AP traffic, frequency band, and number of users</li> </ul>
Security	<ul style="list-style-type: none"> <li>Support Open-system authentication mode</li> <li>Support WEP authentication/encryption mode</li> <li>Support WPA/WPA2-PSK authentication/encryption mode</li> <li>Support WPA/WPA2-802.1X authentication/encryption mode</li> <li>Support WPA-WPA2 hybrid authentication mode</li> <li>Support WPAI authentication/encryption mode</li> <li>Support 802.1X, Mac, portal, WeChat authentication mode</li> </ul>
Network	<ul style="list-style-type: none"> <li>Support business traffic local forwarding and centralized forwarding</li> <li>Support user access isolation under the same SSID</li> <li>Support user access (ACL)</li> <li>Support bandwidth control based on per user</li> <li>Support bandwidth speed limit based on WAN port</li> <li>Support network detection based on Ping and Arp</li> <li>Support local forwarding mode, when the AP is disconnected from the AC, the service is not interrupted.</li> <li>Support DHCP Server, the client obtains the IP address through the AP</li> <li>Support static IP/DHCP/PPPOE and other network access mode</li> <li>Support IPV6 function</li> <li>Support Soft GRE function</li> </ul>
Management	<ul style="list-style-type: none"> <li>Support cloud service mode deployment (ACS+VAP)</li> <li>Support AC centralized management</li> <li>Support Web User Management (HTTPS)</li> <li>Support CLI (SSH) management</li> <li>Support Console port management</li> </ul>

## Ceres Product Datasheet

	<p>Support modify AP login password remotely</p> <p>Support AP automatically go online and load configuration (plug and play)</p> <p>Support LED light control</p> <p>Support periodic automatic restart of devices</p> <p>Support batch modification of AP management platform address</p> <p>Support batch upgrade based on AP location, AP model, AP version</p> <p>Support AP status alarms</p>
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## Ordering Information

Product Model	Product Description
WP882	1*10/100/1000M Ethernet port, 1*SFP optical port optional, 1*Console port, support 2.4G/5G dual-frequency (400Mbps+867Mbps), support built-in or external 2X2MIMO antenna optional, support 802.11a/b/g/n/ac-wave2 protocol, support 802.3at PoE+ power supply, support built-in storage optional