# CAM1000 Wireless Controller AC

## Product Description：

The CAM1000 is part of the Cerestec enterprise virtualization wireless solution for wireless network deployments in branch offices and small businesses. Supports up to 128 wireless access points and up to 4000 clients with excellent performance and higher cost performance. Cooperate with Cerestec wireless AP series to help solve the wireless coverage and WLAN-related intelligent services of single campus networks such as enterprises, hotels, education, medical care and scenic spots.

## Product Features：

- Intelligent RF management to create a smooth network experience

  - Channel intelligent switching

  - Automatic power adjustment

  - Load balancing

  - Support fast roaming

- All-round security protection, building a security fortress

  - Device connection security

  - User access security

  - Illegal device detection function

  - Government requirements

- Differentiated service experience, appropriate to the user's real use scenario

  - Business travel

  - Differentiated services based on physical location

- ➢ Rights management based on user role

- ➢ Time-based application control

- Sturdy basic functions, no worries

    - ➢ AP plug and play

    - ➢ Flexible data forwarding mode

    - ➢ Alarm function

    - ➢ Automatic operation and maintenance service

- Make the network operational

    - ➢ Support probe function

    - ➢ Transform existing networks to achieve unified management certification

    - ➢ Support for expandable ad platform modules

## Hardware Specifications：

| Item | CAM1000 |
|---|---|
| Interface | 4 x 10/100/1000 Base-T Ethernet ports<br>1 x console, serial port, RJ45<br>2 x USB ports |
| Max management AP count | 128 |
| Max concurrent user count | 4000 |
| Operation temperature | 0°C~40°C |
| Storage temperature | -20°C~80°C |
| Humidity | 10% ~ 90%(Non-condensing) |
| Power | 100-240V AC |
| Consumption | 75W |
| Dimension | 1U |

## Software function:

| Function | Description |
|---|---|
| Support network protocol | 802.11a/b/g/n/ac 、802.1P 、802.11e、802.11k、802.11<br><br>ARP、DHCP、TFTP、RIP、OSPF、STP |

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| WLAN network structure | AC discovery<br>✧ Support Broadcast discovery CAM<br>✧ Support DHCP option 43 discovery CAM<br>✧ Support manual designation CAM<br>✧ Support DNS discovery<br>Deployment structure<br>✧ Support AP/AC layer2 or layer3 network structure<br>✧ Support Cloud AC network structure<br>Backup Mode<br>✧ Support 1+1 hot standby mode<br>✧ Support +1 standby mode |
| Wireless RF management | Channel and power configuration<br>✧ Support automatic or manual power adjustment<br>✧ Support automatic or manual channel adjustment<br>✧ Support automatic or manual rate adjustment<br>Load balancing<br>✧ Support for traffic-based load balancing<br>✧ Support user-based load balancing<br>✧ **Support for RF-based load balancing** |
| Data forwarding and certification | Support local forwarding mode ;<br>Support centralized forwarding mode;<br>Support local NET forwarding mode (user obtains address from AP);<br>Support CAPWAP tunnel and DTLS encryption between AP and AC;<br>Support centralized encryption, local forwarding mode |
| User management | Support for user black and white list;<br>Support for the number of user access restrictions;<br>Support for forced users to go offline;<br>Support isolation based on user;<br>Support user group access isolation (VPN isolation). |

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|---|---|
| Certification and encryption | Encryption type<br><br>✧ Support OPEN/WPA-PSK/WPA2-PSK hybrid encryption<br><br>✧ Support WEP/TKIP/AES encryption<br><br>User certification<br><br>✧ Support MAC/portal/802.1X certification<br><br>✧ Support Mac/portal hybrid certification<br><br>✧ Support WeChat authentication<br><br>✧ Support SMS authentication |
| Multi-dimensional user access and role assignment | Supports access and role assignment based on terminal MAC address;<br><br>Support user-based permission allocation, and set different access rights for each specific user;<br><br>Support time-based rights allocation, different access rights in different time periods, flexible control of employees' access rights during commuting; support for setting different access rights based on user groups and temporary visitor groups;<br><br>Different network permissions can be set for the user-free authentication, SMS visitor, QR code visitor, temporary visitor, WeChat visitor, WeChat + SMS authentication visitor based on the visitor type. |
| QOS function | Support to guarantee or limit traffic on different lines according to different applications, users, and user groups;<br><br>Based on single-user uplink and downlink traffic control, the flow control granularity is 1 Kbps;<br><br>Support time-based traffic control, allocate different traffic policies in different time periods, and flexibly allocate bandwidth resources;<br><br>Support traffic control based on terminal access location, and assign different traffic policies to different access locations;<br><br>WMM、802.1p;<br><br>Support priority scheduling based on business application type (voice, video, data); |

| Device maintenance | Support AC firmware remote automatic or manual upgrade;<br><br>Support batch upgrade based on AP hardware type/firmware version/ location;<br><br>Support upgrade based on AP specific time; |
|---|---|
| Log | Support view and export device log, operation log, user log, probe log, alarm log classification;<br><br>Support external log server for data export; |
| Network management function | Support standard and open management information database , example for MIB II, 802.11 MIB<br><br>Support local network management in serial port mode;<br><br>Support ssh and telnet management<br><br>Support https management |

## Ordering Information：

| Index | Product Name | Product Model | Description |
|---|---|---|---|
| 1 | Wireless controller AC | CAM1000 | 1 console port, 2 USB ports, 4 10/100/1000 Base-T Ethernet ports,max management AP count: 128, power: 100-240V AC. |