



## IAC700B

### Intelligent multi-service Wi-Fi controller

## Product Introduction

IAC700B is an industry-leading, high-performance, and enterprise-class wireless access controller, which employs advanced parallel multi-core processors to support flexible and rich interface expansion. IAC700B supports powerful wireless data processing, service monitoring, application analysis, and device management capabilities. IAC700B can be widely applied in various industries such as smart cities, business, education, government, and enterprise.

Compared to traditional wireless controllers, IAC700B adopts an x86 platform architecture, integrating wireless network control, wireless user authentication management, Portal content services, built-in RADIUS, data collection and aggregation, user Internet behavior logging, user application identification, and industry-specific applications into one unit.

## Product Feature

### Intelligent access point management

- Centralized configuration and management of all APs
- Zero-touch configuration for access point deployment
- Scalable up to 4096 Wi-Fi access points
- Supports load balancing to maximize the number of connected terminals and data traffic limitation per AP

### Superior user experience

- Excellent network coverage for various scenarios
- Supports up to 24,000 terminals per device
- Supports up to 64,000 MAC address entries per device
- Adopts multi-core and multi-thread processor
- Supports seamless authentication and Layer 2/3 roaming among multiple controllers

### Flexible network architecture and data forwarding modes

- Supports centralized or local forwarding (configurable)
- In centralized forwarding mode, all control and data traffic pass through the gateway, allowing users to monitor data to the fullest extent
- In local forwarding mode, only control traffic passes through the gateway (maintaining user management and security), which can save bandwidth and reduce network latency, suitable for various scales of network deployment
- Supports multi-tiered AC deployment

### Rich business and intelligent wireless features

- Supports user behavior tracking and WLAN information security management
- Identifies mobile applications, enabling big data analysis on users
- Monitors and alerts on the status of wireless terminals and service systems
- Integrates rich functions including authentication (such as SMS and app authentication), Portal content service, built-in HTTP ads, and local maintenance of ad content

### Robust security and high reliability

- Supports various access authentication methods such as 802.1x-based and Portal-based authentication
- Supports strict user access policies ensuring a safer access
- Provides various encryption methods such as WPA/WPA2

### Smart RF management

- Constantly monitors the wireless network
- Automatically configures AP's RF parameters and adjusts power and channel assignment
- Network recovers automatically in case of AP failure

## Product Specification

### Hardware Specifications

Item	Parameter description
Port/slot	<ul style="list-style-type: none"> <li>4 x GE ports</li> <li>2 x USB2.0 ports</li> <li>1 x Console port</li> <li>1 x VGA port</li> </ul>
Power consumption	<ul style="list-style-type: none"> <li>60 W</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>AC, 100~240V, 50/60Hz</li> </ul>
Dimensions (W x H x D)	<ul style="list-style-type: none"> <li>430mm×250mm×46mm</li> </ul>
Weight (fully loaded)	<ul style="list-style-type: none"> <li>3.12 kg</li> </ul>
Operating temperature	<ul style="list-style-type: none"> <li>0° C ~ +45° C</li> </ul>
Storage temperature	<ul style="list-style-type: none"> <li>-20° C ~ +70° C</li> </ul>
Relative humidity	<ul style="list-style-type: none"> <li>5% ~ 95% noncondensing</li> </ul>
MAC addresses	<ul style="list-style-type: none"> <li>64,000</li> </ul>
ARP table entries	<ul style="list-style-type: none"> <li>64,000</li> </ul>
VLANs	<ul style="list-style-type: none"> <li>4,096</li> </ul>
Max manageable AP	<ul style="list-style-type: none"> <li>128 (centralized forwarding)</li> <li>512 (local forwarding)</li> </ul>
Max connected terminals	<ul style="list-style-type: none"> <li>4,000 (centralized forwarding)</li> <li>24,000 (local forwarding)</li> </ul>
Max built-in portal users	<ul style="list-style-type: none"> <li>2,000</li> </ul>

### Software Specifications

Item	Parameter description
WLAN	<ul style="list-style-type: none"> <li>Centralized and local forwarding</li> <li>CAPWAP channel encryption</li> <li>Automatic power adjustment and automatic channel selection</li> <li>SSID/USER based rate limiting</li> <li>Load balancing</li> <li>5G priority</li> <li>Multiple SSIDs/hiding SSID</li> <li>Intelligent service maintenance</li> <li>Performance monitoring and statistics</li> </ul>
Wi-Fi security	<ul style="list-style-type: none"> <li>ACL</li> <li>Portal authentication (based on SMS, APP, and username/password authentications, one-click authentication, and more)</li> <li>802.1x authentication</li> <li>User blacklist and whitelist</li> <li>SSID-based Portal pages pushing</li> <li>Multiple Portal templates</li> <li>User behavior recording</li> <li>Application identification</li> </ul>
L2 & L3 functions	<ul style="list-style-type: none"> <li>Radio limiting</li> <li>AP isolation at layer 2 VLAN</li> <li>DHCP server</li> <li>DHCP snooping</li> <li>NAT</li> <li>NTP server</li> </ul>
Redundancy	<ul style="list-style-type: none"> <li>1+1 stateful redundancy</li> </ul>
System management	<ul style="list-style-type: none"> <li>Login through console, SSH, or Telnet</li> <li>Configuration based on CLI or Web UI</li> <li>Management and configuration via platform or APP</li> <li>Syslog system monitoring</li> <li>SNMP, Trap</li> <li>License-based capacity (AP quantity) control</li> </ul>

Note: Specifications are subject to change.