



IAC700E

Intelligent multi-service Wi-Fi controller

Product Introduction

IAC700E 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. IAC700E supports powerful wireless data processing, service monitoring, application analysis, and device management capabilities. IAC700E can be widely applied in various industries such as smart cities, business, education, government, and enterprise.

Compared to traditional wireless controllers, IAC700E 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 200,000 terminals per device
- Supports up to 256,000 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	 6 x GE ports 2 x Gigabit optical ports 2 x USB2.0 ports 2 x Expansion slots 1 x Console port 	
Power consumption	• 75 W	
Power supply	• AC, 100~240V, 50/60Hz	
Optional power supply	• DC, -36V~-72V	
Dimensions (W x H x D)	• 426 mm x 44 mm x 400 mm	
Weight (fully loaded)	• 6.25 kg	
Operating temperature	• -10° C ~ +55° C	
Storage temperature	• -40° C ~ +70° C	
Relative humidity	• 5% ~ 95% noncondensing	
MAC addresses	• 256,000	
ARP table entries	• 256,000	
VLANs	• 4,096	
Max manageable AP	1,024 (centralized forwarding)4,096 (local forwarding)	
Max connected terminals	16,000 (centralized forwarding)200,000 (local forwarding)	
Max built-in portal users	• 10,000	

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Software	Specifi	ications
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Software Specifications		
Item	Parameter description	
WLAN	 Centralized and local forwarding CAPWAP channel encryption Automatic power adjustment and automatic channel selection SSID/USER based rate limiting Load balancing 5GHz priority Multiple SSIDs/hiding SSID Intelligent service maintenance Performance monitoring and statistics 	
Wi-Fi security	 ACL Portal authentication (based on SMS, APP, and username/ password authentications, one-click authentication, and more) 802.1x authentication User blacklist and whitelist SSID-based Portal pages pushing Multiple Portal templates 	

User behavior recording

Application identification

Item	Parameter description	
L2 & L3 functions	 Radio limiting AP isolation at layer 2 VLAN DHCP server DHCP snooping NAT NTP server 	

Login through console, SSH, or

Configuration based on CLI or Web UI

1+1 stateful redundancy

Management and configuration System management via platform or APP

Syslog system monitoring SNMP, Trap

License-based capacity (AP quantity) control

Note: Specifications are subject to change.

Software Specifications

Ordering

Redundancy

Product	Description	
IAC700E°	 Intelligent multi-service controller with AC Power supply 	
IAC700E-DC [□]	 Intelligent multi-service controller with DC power supply 	
SK-CM-2XGEF ^d	• Expansion card with two 10G SFP ports	
SK-CM-4GEF ^d	Expansion card with four Gigabit SFP ports	
License	Description	

16 ^{bc}		additional access points
JadeOS-LIC-AP- 64 ^{bc}	•	Licenses an IAC700E to manage 64 additional access points
JadeOS-LIC-AP-	•	Licenses an IAC700E to manage 128

 $^{^{\}mbox{\tiny a}}$ The number of access points that an IAC700E can manage is license-controlled. By default, IAC700E has no

JadeOS-LIC-AP-

• Licenses an IAC700E to manage 16

^b Once an upgrade license is imported, the total number of access points that the IAC700E can manage is increased by the number authorized by the license.

^c For upgrade

^d Optional component