

SAC700 SERIES — SAC700 WIRELESS ACCESS CONTROLLER



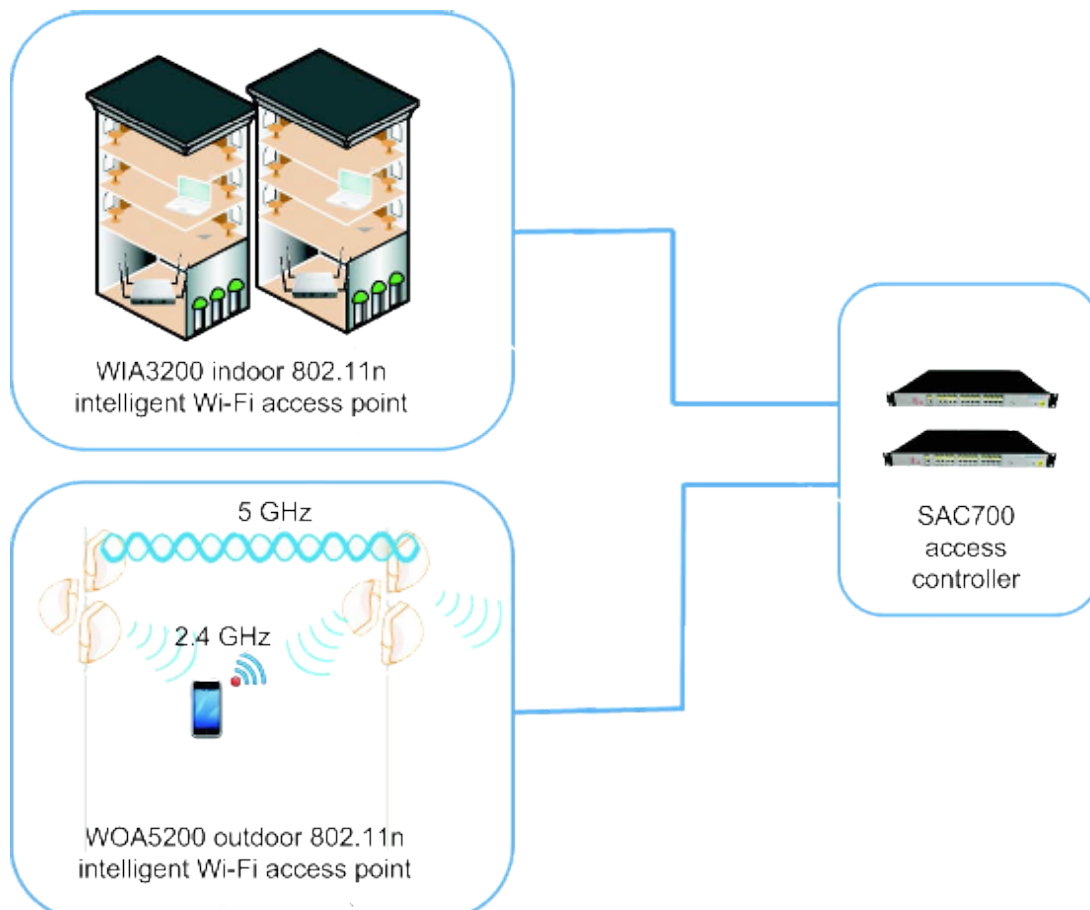
SKSpruce SAC700 wireless access controller adopts the advanced modular hardware and software design and uses powerful multi-core and multi-thread processors. Therefore, SAC700 delivers good scalability and blazing data processing performance. Besides, SAC700 boasts rich wireless user access and fit access point (AP) management functions and features.

SAC700 can be deployed with SKSpruce SAP series to construct a wireless network where SAC700 delivers all AP configuration, control, and management commands. APs are connected to the network without any configuration and are plug-and-play. Compared with a wireless network consisting of independent fat APs, such a network integrates more QoS, security, and roaming features, delivers much higher service quality and makes



services more stable. SAC700 can monitor and control AP radio frequencies in real time. Based on the real-time monitoring data, SAC700 can offer features such as automatic power adjustment and dynamic channel assignment, as well as load balancing by traffic or user quantity. These features minimize interference on wireless signals, as well as balance and stabilize workload.

Besides the previously mentioned features, SAC700 also provides features such as L2/L3 roaming, secure user access, and role-based user management. Applying to various networks of an enterprise, SAC700 is an ideal choice for enterprise users who want to deploy wireless networks.



→ Features

→ SMART MANAGEMENT

SAC700A centrally configures and manages all APs under its control. No configuration needs to be done on APs. This greatly simplifies large-scale wireless network deployment and management. SAC700A provides two service traffic forwarding modes, central forwarding and local forwarding to adapt to different networks and to improve network resource utilization.

→ END-TO-END SECURE FEATURES

SAC700A provides powerful secure features to present good user experience.

- Wireless user access control: various access authentication modes (such as 802.1X-based and portal) and strict user access control policies
- Data encryption: 802.11i standards
- Application security: role-based application permission control

→ SRM

The Smart RF Management (SRM) feature monitors the wireless network environment in real time. Based on the monitor data, the feature automatically configures RF parameters of all APs and adjusts the power or channel of one or more APs, which makes users avoid interference from wireless devices nearby. Besides, the SRM feature can implement wireless network self-healing. Once an AP fails, the feature automatically increases the power of APs around to shrink or even eliminate the blind area.

→ HIGH RELIABILITY

The SAC700A supports 1 : 1 backup. In a network that SAC700A 1 : 1 backup is implemented, when the active SAC700A access controller fails, all the APs connected to the failed one will be switched to the backup SAC700A immediately. The wireless users under the failed device will get in service or network access in a very short time.

→ SMART LOAD BALANCING

In a WLAN that wireless users determine the AP to connect, this will lead to some APs are overloaded while some other APs are quite idle. Therefore, network resource utilization is unbalanced. This feature can balance workload among APs by user quantity or traffic to improve network resource utilization.

→ ROAMING ANYTIME AND ANYWHERE

With the unique wireless roaming technology and dedicated data processing mechanism for roaming, SAC700A supports cross-controller or cross-network seamless L2/L3 roaming.



Product Functions

Item	Description
Layer 2 function	VLAN
	Broadcast suppression
Layer 3 function	DHCP Server, DHCP Snooping
	Static routing, OSPF protocol
	VRRP protocol
WLAN	AP management and control
	CAPWAP
	Performance monitoring and statistics (with SKSpruce network management system)
	Seamless roaming
Redundancy	1:1 redundancy; active-standby
Security	Authentication types <ul style="list-style-type: none"> • Web portal authentication • MAC authentication • RFC 3576 RADIUS authentication • RFC 3580 IEEE 802.1X RADIUS • EAP authentication, including EAP-TLS, EAP-FAST, EAP-SIM/AKA
	Authentication client <ul style="list-style-type: none"> • RADIUS Client • LDAP/ SSL Secure LDAP
	Encryption <ul style="list-style-type: none"> • WEP: 64 and 128 bit • TKIP, AES • SSL,TLS: RC4 128-bit, RSA1024 and 2048bit
	Access control
	Configuration based on CLI and WebUI
	Login through console or Telnet
	Syslog system monitor SNMP v1, v2c
	License-based capacity (AP and user quantity) control

Parameters

Product Model		SAC700
Software parameters		12,000 DHCP users
		16 DHCP pools
		16,000 ARP table entries
		16,000 bridge table entries
		256 static routes
		2000 dynamic routes
		16 NAT pools
Performance parameters	802.11 Throughput	8 Gbit/s
	Max. number of managed APs in distributed mode	512
	Max. number of managed APs in centralized mode	128
	Max. number of managed users in distributed mode	18,432
	Max. number of managed users in centralized mode	4608
	VLAN	4094
Chassis	Dimensions	440 mm x 311 mm x 44.5 mm
	Number of line card or RTM slots	None
	Chassis kit	None
Line card	Model	SA700A
	Data interface	8 x GE (RJ45/SFP Combo)
	CPU	Dual-core, 800 MHz frequency
	Memory	4 GB DDR3
RTM	Interface 1	None
	Interface 2	None
Weight (fully-loaded)		4.0 kg
Power parameters	Voltage	90 V to 264 V AC
	Power frequency	50 Hz
	Rated power consumption (fully-loaded)	60 W

Ordering Information

Name	Configuration	Remark
SAC700	System	Standard configuration
	64 APs authorized for initial purchase	Standard configuration
License Management	Additional 64 APs authorized for a new license	If you want to increase the number of managed APs after purchase, apply for a license for up-grade with desired AP quantity. The number of APs that an SAC700A manage more APs is based on the combination of licenses.

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