

DPtech AP2000 Wireless Access Point Series



Overview

DPtech AP2000 series is high-speed wireless access point which based on IEEE 802.11ac technology, provide six times greater wireless rates and coverage compare to traditional IEEE 802.11a/b/g/n wireless network.

AP2000 series wireless access point support both FAT and FIT modes, provide flexibility and scalability for wireless network upgrade with good Return of Investment (ROI) to users. When using FIT mode, AP2000 series of wireless access point need work together with ACS6000 series wireless controllers. While under FAT mode, AP2000 series can work independently.

AP2000 series access equipment includes: AP2000-2C ceiling mount AP, meet ceiling and wall mount requirements which can widely used in offices, schools, hotels, hospitals and other types of wireless coverage environments.

Series



AP2000-2C

Features

High-Speed Wireless Access

- AP2000 series using industry's latest 802.11ac wireless technology chipset, compared to the traditional 802.11n wireless access point, AP2000 series provide excellent performance in 2.4G radio, but also higher performance and speed in 5G radio.
- 2.4G radio provide 300Mbps access rate while 5G radio provide 867Mbps access rate, provide 1.167Gbps access rate.

FIT and FAT AP Integration

- AP2000 series supports FAT and FIT AP modes, provide flexible deployment mode based on network planning and environment.
- AP2000 series FAT mode can deploy under smaller scale wireless network. With the continuous expansion of network size user, AP2000 series can upgrade to FIT mode and work together with

ACS6000 series wireless controller, reduce complexity of network management and provide centralized management of all AP2000 series wireless access point.

- FAT/ FIT AP integrated design facilitates user's upgrade their wireless network from small network to large networks, protect user's investment and ideal for smooth upgrade and expansion of large-scale carrier-class wireless networks.

Local Forwarding

- Local forwarding help reduce traffic load at ACS6000 series wireless controller when AP2000 series under FIT mode.
- Centralized forwarding will redirect all wireless traffic back to ACS6000 series wireless controller and reduce ACS6000 series performance. Local forwarding ensure AP2000 series direct send data packets to Ethernet switches instead tunnel back to ACS6000 series wireless controller, greatly improve the forwarding efficiency.

Enhanced Multicast Technology

- Traditional 802.11 protocol uses low-rate (1Mbps) to send multicast packets, which will cause high latency, delay, a large number of packet loss and other large packet loss, poor user experience for applications such as e-books, conference sites and other real-time sharing when using wireless connectivity
- DPtech enhanced low-rate multicast packets into high-speed unicast packets for transmission, ensure each access users have smooth and stable wireless connectivity.

Active Roaming

- Active roaming function roam wireless client to nearby wireless access point with best signal, protect the user business continuity and availability.

Intelligent Load Balancing

- AP2000 series supports intelligent load balancing technology, ensure load balancing for wireless users that within the overlap coverage, effectively prevent load balance error, thereby maximize the wireless network capacity.

Wireless Intrusion Detection and Prevention (WIDS/WIPS)

- AP2000 series in FAT mode supports blacklist and whitelist wireless user access control features.
- AP2000 series in FIT mode with integration of ACS6000 series wireless controller support WIDS/WIPS functions such as rogue detection, intrusion detection and blacklist and white list.

Wired and Wireless Unified Management

- DPtech full range of wireless products can be manage by DPtech Unified Management Center (UMC), provide unified management for wired, wireless, security and application delivery platform.
- DPtech UMC provides simple, user-friendly interface, fault management, performance monitoring, software version management, configuration file management and user management to wireless networks.

Hardware Specification

Item	AP2000-2C
Deployment	<ul style="list-style-type: none"> Ceiling/ Wall Mount AP
Operating Frequency	<ul style="list-style-type: none"> 2.4 GHz and 5.8 GHz
Wireless Standard	<ul style="list-style-type: none"> IEEE 802.11 a/b/g/n/ac
Transfer Rate	<ul style="list-style-type: none"> 1.167 Gbps
Antenna Type	<ul style="list-style-type: none"> Built-in Omni Directional Antenna
Service Port	<ul style="list-style-type: none"> 1-port RJ45 10/100/1000 Base-T
Transmit Power	<ul style="list-style-type: none"> 23 dBm
PoE	<ul style="list-style-type: none"> Compatible with IEEE 802.3af/ IEEE 802.3at
Local Power	<ul style="list-style-type: none"> 48V DC
Rated Power	<ul style="list-style-type: none"> ≤20 W
Dimensions (W x D x H)	<ul style="list-style-type: none"> 210 x 214 x 44 (mm)
Operating Temperature	<ul style="list-style-type: none"> -10°C~55°C
Storage Temperature	<ul style="list-style-type: none"> -40°C~70°C
Environment Humidity	<ul style="list-style-type: none"> 5%~95% (Non-condensing)
MTBF	<ul style="list-style-type: none"> > 250000 H
Data Rates	<ul style="list-style-type: none"> OFDM : BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS : DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MIMO-OFDM (11n) : MCS 0-15 MIMO-OFDM (11ac) : MCS 0-9

Software Specification

Item	AP2000-2C	
Virtual AP	<ul style="list-style-type: none"> 32 	
Associated Devices Per Radio	<ul style="list-style-type: none"> 128 	
Security Policy	Access Authentication	<ul style="list-style-type: none"> Support MAC, 802.1X, Portal, PSK and other authentication methods
	Encryption	<ul style="list-style-type: none"> Supports 64/ 128 bit WEP, TKIP, WAPI, CCMP encryption

Item		AP2000-2C
	User Isolation	<ul style="list-style-type: none"> Support layer 2 wireless user isolation Support SSID based wireless user isolation Support wireless user isolation within same SSID
	Filtering	<ul style="list-style-type: none"> Support Whitelist and Blacklist
	Hidden SSID	<ul style="list-style-type: none"> Support
Intelligent Roaming	Roaming between AP	<ul style="list-style-type: none"> Support
	Roaming based on	<ul style="list-style-type: none"> Signal strength, error rate and neighboring AP operation mode
Layer 2 and Layer 3 Features	Management IP Address	<ul style="list-style-type: none"> Support static IP address Support dynamic IP address
	Routing	<ul style="list-style-type: none"> Support static routing
	Forwarding Mode	<ul style="list-style-type: none"> Centralized forwarding Local forwarding
	Roaming	<ul style="list-style-type: none"> Support L2/L3 roaming
	IPv6	<ul style="list-style-type: none"> Support
	Access Control List (ACL)	<ul style="list-style-type: none"> Support
	Multicast	<ul style="list-style-type: none"> Support
Quality of Service (QoS)	IEEE 802.11e	<ul style="list-style-type: none"> Support WMM
	Priority	<ul style="list-style-type: none"> Support 802.1p identification and marking Support priority queues and mapping
	Traffic Limit	<ul style="list-style-type: none"> Support SSID / STA upload and download traffic limit
	Traffic Classification	<ul style="list-style-type: none"> Support
	QoS Policy Map	<ul style="list-style-type: none"> Support different SSID / VLAN mapping to different QoS policies
	Load Balancing	<ul style="list-style-type: none"> Support based on user traffic load balancing
RF Management	Transmit Power	<ul style="list-style-type: none"> Support manual power adjustment Support automatic power adjustment, AP automatically adjust the power based on nearby wireless network environment
	Channel	<ul style="list-style-type: none"> Support manual channel setting Support automatic channel adjustment, AP automatically adjust the channel based on nearby wireless network environment

Item		AP2000-2C
Management and Maintenance	Network Management	<ul style="list-style-type: none"> • Support SNMP v1/ v2C/ v3 • Support SSH, Telnet, FTP and TFTP • Support WEB management
	FIT/ FAT Mode Switching	<ul style="list-style-type: none"> • Support for local or switch operating modes by ACS6000 series wireless controller
	Watchdog	<ul style="list-style-type: none"> • Support real-time monitoring of equipment status
	Logging	<ul style="list-style-type: none"> • Support
	Alarm	<ul style="list-style-type: none"> • Support
	Fault Detection	<ul style="list-style-type: none"> • Support
	Statistics	<ul style="list-style-type: none"> • Support

Ordering Information

Part Number	Model Description	Remarks
02050399	DPtech AP2000-2C Dual-Band Concurrent (2.4 GHz & 5 GHz) 11a/b/g/n/ac Ceiling Mount Access Point	Required

Note:

“Required” indicates that the item described is provided directly with the ordered host. The user does not need to purchase it specially.

“Optional” indicates the item described should be purchased by the user if it is needed.

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