

# DPtech AP1000 Wireless Access Point Series



## Overview

DPtech AP1000 series is high-speed wireless access point which based on IEEE 802.11n technology, provide six times greater wireless rates and coverage compare to traditional IEEE 802.11a/b/g wireless network.

AP1000 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, AP1000 series of wireless access point need work together with ACS6000 series wireless controllers. While under FAT mode, AP1000 series can work independently.

AP1000 Series Access equipment includes: AP1000-2C 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



AP1000-2C

## Features

### High-Speed Wireless Access

- AP1000 series comply with IEEE 802.11n protocol standards with professional modular design. Single-radio provides 300Mbps wireless access rates and dual-radio support up 600Mbps wireless access rate, provide six times greater bandwidth compare to traditional IEEE 802.11a/b/g wireless access point, provide higher performance wireless access services in terms of coverage, access density, operating stability.

### Green and Energy Saving Design

- AP1000 Series supports variety of energy-saving technologies, Green AP technology ensure AP only use single antenna transceiver under standby mode, per-packet power control techniques dynamically adjust power based on user distance , avoid unnecessary power consumption.

- With ACS6000 series wireless controller, AP can set the timing to open and close the RF module, reducing overall energy consumption.

### **FIT and FAT AP Integration**

- AP1000 series supports FAT and FIT AP modes, provide flexible deployment mode based on network planning and environment.
- AP1000 series FAT mode can deploy under smaller scale wireless network. With the continuous expansion of network size user, AP1000 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 AP1000 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 AP1000 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 AP1000 series direct send data packets to Ethernet switches instead tunnel back to ACS6000 series wireless controller, greatly improve the forwarding efficiency.

### **IPv4 and IPv6 Dual Stack**

- AP1000 series fully support IPv6 features, allow IPv4/IPv6 dual stack implementation.
- By establishing IPv6 tunnel with ACS6000 series wireless controller, AP1000 series can freely communicate with ACS6000 series controller regardless of the existing wired network is using IPv4 or IPv6 network.

### **Intelligent Load Balancing**

- AP1000 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)**

- AP1000 series in FAT mode supports blacklist and whitelist wireless user access control features.
- AP1000 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.

### **TR-069 Management**

- AP1000 series supports TR-069 features provide centralized management for wireless access point deploy across the network.

## Wired and Wireless Unified Management

- DPtech full range of wireless products can be managed 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	AP1000-2C
Deployment	<ul style="list-style-type: none"> <li>• Ceiling/ Wall Mount AP</li> </ul>
Operating Frequency	<ul style="list-style-type: none"> <li>• 2.4 GHz and 5.8 GHz</li> </ul>
Wireless Standard	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n</li> <li>• IEEE 802.11 a/n</li> </ul>
Transfer Rate	<ul style="list-style-type: none"> <li>• 600Mbps</li> </ul>
Antenna Type	<ul style="list-style-type: none"> <li>• Built-in 5dBi Omni Directional Antenna</li> </ul>
Service Port	<ul style="list-style-type: none"> <li>• 1-port RJ45 10/100/1000 Base-T</li> </ul>
Transmit Power	<ul style="list-style-type: none"> <li>• 20 dBm</li> </ul>
PoE	<ul style="list-style-type: none"> <li>• Compatible with IEEE 802.3af/ IEEE 802.3at</li> </ul>
Local Power	<ul style="list-style-type: none"> <li>• 48V DC</li> </ul>
Rated Power	<ul style="list-style-type: none"> <li>• ≤16W</li> </ul>
Dimensions (W x D x H)	<ul style="list-style-type: none"> <li>• 200 x 200 x 38 (mm)</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• -10°C ~55°C</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -40°C ~70°C</li> </ul>
Environment Humidity	<ul style="list-style-type: none"> <li>• 5%~95% (Non-condensing)</li> </ul>
MTBF	<ul style="list-style-type: none"> <li>• &gt; 250000 H</li> </ul>
Data Rates	<ul style="list-style-type: none"> <li>• OFDM : BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps</li> <li>• DSSS : DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps</li> <li>• MIMO-OFDM : BPSK, QPSK, 16QAM, 64QAM</li> </ul>

Item		AP1000-2S
Virtual AP		<ul style="list-style-type: none"> <li>• 32</li> </ul>
Security Policy	Access Authentication	<ul style="list-style-type: none"> <li>• Support MAC, 802.1X, Portal, PSK and other authentication methods</li> </ul>
	Encryption	<ul style="list-style-type: none"> <li>• Supports 64/ 128 bit WEP, TKIP, WAPI, CCMP encryption</li> </ul>
	User Isolation	<ul style="list-style-type: none"> <li>• Support layer 2 wireless user isolation</li> <li>• Support SSID based wireless user isolation</li> <li>• Support wireless user isolation within same SSID</li> </ul>
	Filtering	<ul style="list-style-type: none"> <li>• Support Whitelist and Blacklist</li> </ul>
	Hidden SSID	<ul style="list-style-type: none"> <li>• Support</li> </ul>
Intelligent Roaming	Roaming between AP	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	Roaming based on	<ul style="list-style-type: none"> <li>• Signal strength, error rate and neighboring AP operation mode</li> </ul>
Layer 2 and Layer 3 Features	Management IP Address	<ul style="list-style-type: none"> <li>• Support static IP address</li> <li>• Support dynamic IP address</li> </ul>
	Routing	<ul style="list-style-type: none"> <li>• Support static routing</li> </ul>
	Forwarding Mode	<ul style="list-style-type: none"> <li>• Centralized forwarding</li> <li>• Local forwarding</li> </ul>
	Roaming	<ul style="list-style-type: none"> <li>• Support L2/L3 roaming</li> </ul>
	IPv6	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	Access Control List (ACL)	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	Multicast	<ul style="list-style-type: none"> <li>• Support</li> </ul>
Quality of Service (QoS)	IEEE 802.11e	<ul style="list-style-type: none"> <li>• Support WMM</li> </ul>
	Priority	<ul style="list-style-type: none"> <li>• Support 802.1p identification and marking</li> <li>• Support priority queues and mapping</li> </ul>
	Traffic Limit	<ul style="list-style-type: none"> <li>• Support SSID / STA upload and download traffic limit</li> </ul>
	Traffic Classification	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	QoS Policy Map	<ul style="list-style-type: none"> <li>• Support different SSID / VLAN mapping to different QoS policies</li> </ul>
	Load Balancing	<ul style="list-style-type: none"> <li>• Support based on user traffic load balancing</li> </ul>

Item		AP1000-2S
RF Management	Transmit Power	<ul style="list-style-type: none"> <li>• Support manual power adjustment</li> <li>• Support automatic power adjustment, AP automatically adjust the power based on nearby wireless network environment</li> </ul>
	Channel	<ul style="list-style-type: none"> <li>• Support manual channel setting</li> <li>• Support automatic channel adjustment, AP automatically adjust the channel based on nearby wireless network environment</li> </ul>
Management and Maintenance	Network Management	<ul style="list-style-type: none"> <li>• Support SNMP v1/ v2C/ v3</li> <li>• Support SSH, Telnet, FTP and TFTP</li> <li>• Support WEB management</li> </ul>
	FIT/ FAT Mode Switching	<ul style="list-style-type: none"> <li>• Support for local or switch operating modes by ACS6000 series wireless controller</li> </ul>
	Watchdog	<ul style="list-style-type: none"> <li>• Support real-time monitoring of equipment status</li> </ul>
	Logging	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	Alarm	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	Fault Detection	<ul style="list-style-type: none"> <li>• Support</li> </ul>
	Statistics	<ul style="list-style-type: none"> <li>• Support</li> </ul>

Part Number	Model Description	Remarks
02050353	DPtech AP1000-2C Dual-Band Concurrent (2.4 GHz & 5 GHz) (2x2MIMO) 11a/b/g/n Ceiling Mount Access Point	Required

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**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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