DPtech ACS6000 Wireless Controller Series

DP tech
Hangzhou DPtech Technologies Co., Ltd.

Overview

DPtech ACS6000 series is enterprise-class wireless controllers developed by DPtech. ACS6000 series support user management, improve radio resource management, wireless security management, layer 2 and layer 3 fast roaming, flexible QoS control and other functions under single platform, provide strong wired and wireless integrated access capabilities.

ACS6000 series support 802.1X and Portal access authentication, integrated firewall features to ensure secure wireless network and data access control. This series wireless controller support appliance and module based wireless controller, integrated with DPtech self-developed 802.11n full range of wireless access points, designed to education, healthcare, business, hotels and other large campus wireless access requirements.

Series

| ACS6000-GC | ACS6000-GM | ACS6000-Blade-S |

Features

Various Authentication Method with Security Enforcement

- Support MAC address authentication, Portal authentication, 802.1X authentication and other traditional access authentication method.

Distributed Forwarding Technology, Improve Network Performance

- Traditional wireless controllers generally use centralized forwarding mode, all wireless traffic needs redirect back to AC for unified processing, AC forwarding capability easily become bottleneck. ACS6000 series wireless controller support both centralized and distributed forwarding modes, user can use the forwarding mode based on actual application requirements.

Built-in Enterprise-Class Firewall Capability, Wireless Network Security Control

- ACS6000 series wireless controller built-in with enterprise-class firewall, packet filtering support, security zone classification, internal and external network attack prevention, protection of wireless network security.

- Meanwhile, ACS6000 series supports professional URL filtering, administrator can develop rich URL site access policies, improve security and business efficiency across the network.

Endpoint Identification, Wireless Mobility Office

- ACS6000 series wireless controller supports terminal intelligent recognition technology, provide appropriate popup page size for Portal authentication according to different type of terminal, eliminating user to adjust the screen, support Apple iOS, Android and Windows mainstream smart terminal operating system.

Intelligent Load Balancing, High-Speed Wireless Network

- Load balance wireless user based on wireless access point load, automatically assign wireless users to stronger signal and less users access wireless access point, provide high-speed wireless network.

Hardware Specification

Item	ACS6000-GC	ACS6000-GM	ACS6000-Blade-S
Service Ports	16 10/100/1000 BASE-T Ethernet POE+ ports, 8 SFP Gigabit ports (Combo)	4 10/100/1000 BASE-T Ethernet ports + 4 SFP Gigabit ports	12 10/100/1000 BASE-T Ethernet ports + 12 SFP Gigabit ports
Expansion Slots	2	1	-
Interface Module	• 1-Port 10GE SFP+ interface module • 2-Ports 10GE SFP+ interface module • 2 Ports Gigabit Optical Interface Module (SFP)	• 4 Ports Gigabit Optical Interface Module (SFP) • 4 Ports Gigabit Electrical Interface Module (RJ45)	-
Management Port	1 Console Port	1 Console Port	1 Console Port
USB Port	0	2	2
Dimensions (W x D x H)	440 x 383 x 44 (mm)	430 x 261 x 44 (mm)	400 x 435 x 40 (mm)
Power Supply	Support External RPS	Dual Power Supply	-
PoE Power Supply	Support IEEE 802.3af/802.3at Power Supply	-	-
Rated Power	53w	54w	100w

Item	ACS6000-GC	ACS6000-GM	ACS6000-Blade-S
Environment Temperature	0℃～45℃		
Environment Humidity	10%～95%		

Software Specification

Item	ACS6000-GC	ACS6000-GM	ACS6000-Blade-S
Default AP Management	32	64	128
Maximum AP Management	512	512	1,024
IEEE 802.11 Protocol	• 802.11, 802.11b, 802.11a, 802.11g, 802.11d，802.11h, 802.11w, 802.11k, 802.11r, 802.11i, 802.11e, 802.11n, 802.11ac		
CAPWAP Protocol	• Support L2/ L3 Management • Support AP automatic discovery and connect AC • Support AP automatic upgrade firmware from AC • Support AP automatic download configuration from AC • Support NAT Traversal		
Roaming	• Support L2/L3 roaming within same AC • Support L2/L3 roaming across different AC		
Quality of Service (QoS)	• Support 802.1p priority mapping • Support L2 to L4 packet filter and traffic classification • Support intelligent bandwidth traffic limit • Support intelligent bandwidth traffic guarantee • Support AP load balancing based on user and traffic load		
Forwarding Mode	• Centralized forwarding • Local forwarding		
Reliability	• Support Virtual Switching Matrix (VSM) virtualization, virtualize multiple AC into one logical AC • Support VRRP • Support fast switching between AC • Support 1+1, N+1 and N+N AC backup • Support hot standby DHCP server		
Access Authentication	• Support MAC, 802.1X, Portal and PSK authentication • Support no perception authentication		
Encryption	• Support 64/ 128 bit WEP, TKIP, WAPI, CCMP		
User Isolation	• Support layer 2 wireless user isolation • Support SSID based wireless user isolation • Support wireless user isolation within same SSID		

Item	ACS6000-GC	ACS6000-GM	ACS6000-Blade-S
Filtering	• Support Whitelist and Blacklist		
Endpoint Access	• Support Terminal Access Control (TAC) endpoint access control		
Firewall Capability	• Integrated firewall capability, provide packet filtering, security zoning and prevent internal and external network attack		
Internet Behavior Management	• Support rich URL database to identify and control different URL access		
Management IP Address	• Support static IP address • Support dynamic IP address		
Routing	• Support static routing • Support policy based routing • Support RIP v1/v2, OSPF and BGP routing • Support IPv4 and IPv6 dual stack • Support MPLS VPN		
Management and Maintenance	• Support Green AP, AP timed RF shutdown, AP timed service shutdown • Support Web graphical management • Support log management and statistic • Support fault detection		

Ordering Information

Part Number	Model Description	Remarks
02050173	DPtech ACS6000-GM with 4 10/100/1000 BASE-T Ethernet ports + 4 SFP Gigabit ports, 1 expansion slot, Dual AC Power Supply (64 AP License, Support to up 512 AP License)	Required
02050349	DPtech ACS6000-GC with 16 10/100/1000 BASE-T POE+ Ethernet ports, 8 SFP Gigabit ports (Combo), 2 expansion slots (32 AP License, Support to up 512 AP License)	Required
02010251	DPtech Wireless Service Module with 12-port 1000BASE-X Ethernet Optical Interface (SFP Req.) + 12-port 10/100/1000BASE-T Electrical (RJ45) Interface (128 AP License, Support to up 1,024 AP License)	Required
53010220	DPtech ACS6000 Upgrade License for an Additional Support of 32 Access Points	Optional

02010010	DPtech 4-Ports Gigabit Ethernet Copper Interface Module	Optional
02010009	DPtech 4-Ports Gigabit Ethernet Optical Interface Module (SFP)	Optional
02010066	DPtech 1 Ports 10-GigaBit Optical Interface Module (SFP+)	Optional
02010073	DPtech 2 Ports 10-GigaBit Optical Interface Module (SFP+)	Optional
02010076	DPtech 2 Ports Gigabit Optical Interface Module (SFP)	Optional
02010075	DPtech SFP+ 10-GigaBit Optical Module, Multi-mode (850nm,0.3km,LC)	Optional
02010078	DPtech SFP+ 10-GigaBit Optical Module, Single Mode (1310nm,10km,LC)	Optional
02010005	DPtech 1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)	Optional
02010004	DPtech 1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)	Optional
02010013	DPtech 1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)	Optional
02010014	DPtech 1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)	Optional
02010035	DPtech 1000BASE-T SFP Transceiver	Optional

📖 **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.