

PRODIGY WAC CONTROLLER



PD1-C61-XXX SERIES

Wireless Access Controller

PRODUCT OVERVIEW

- PD1-C61-XXX Series is a wireless access controller with high performance and high reliability, which are invented by TERRABIT on the basis of the multi-core general hardware platform, and characteristic of versatile functions, various services and stability.
- PD1-C61-XXX Series supports CAPWAP standard protocol, strong WLAN access control capability, automatic channel management, wireless radio frequency adjustment, user load balance, and user roaming and switching.
- Besides, PD1-C61-XXX Series also supports the authentication and charging interface, which can connects with the industry mainstream platform such as Radius and Portal.
- Multi-core CPU. Energy efficiency design.
- FIT and FAT AP mode. Local forwarding and centralized forwarding. SNS, SMS and whitelist login authentication.
- 802.11a/b/g/n/ac/wave2. Managing up to 1024AP. Layer-2 and Layer-3 networking.
- Universal network management. Cloud platform. Portal 2.0. WiFidog.

PRODUCT CHARACTERISTICS

- **Centralized Wireless Network Management**
PD1-C61-XXX Series can be deployed independently or deployed together with TERRABIT C81 Series NMS platform and C82 Cloud Platform, which provide carrier-level network administration. What's more, PD1-C61-XXX Series can be used to manage APs and users, facilitating the deployment and maintenance of carriers' networks.
- **Seamless Roaming Characteristics**
PD1-C61-XXX Series supports multiple networking modes including centralized forwarding and local forwarding. PD1-C61-XXX Series also supports layer-2 and layer-3 roaming function. In the networking mode of centralized forwarding, the roaming domain is not affected by the network IP plan, so that the user only needs to concentrate on the wireless coverage but not the topology. Such characteristics not only facilitates the user, but also reduces the threshold of network plan and construction.
- **Centralized and Secure Access of Wireless Networks**
PD1-C61-XXX Series supports following functions which ensure centralized and safe network access: WEP/WPA/WAP2/802.1x, wireless IPS/IDS, Layer-2 user isolation, centralized ACL control, 802.1x/MAC/Portal/PPPoE/WAPI authentication, illegal AP detection and processing, wireless attack prevention, white list and blacklist, which greatly reduce shocks over wireless network from illegal users.
- **All-round QoS Mechanism**
PD1-C61-XXX Series supports packet classification, flow control, DSCP flow schedule, end-to-end QoS mapping, 802.11e, load balance and reception control.
- **Diversified Connecting and Authentication Interface**
PD1-C61-XXX Series supports Portal2.0 interface and WiFidog interface, which can realize functions including flexible networking, authentication and pushing service. These interfaces lay a firm foundation for constructing wireless cities and commercial WiFi.

PRODIGY WAC CONTROLLER

MODEL LIST

PD1-C61-XXX Series Enterprise-Level Intelligent Wireless AC



PD1-C61-321/641/128

- 1 Console
- 1 USB2.0
- 2 GE TX/SFP Combo WAN ports
- 8 GE TX LAN
- Built-in AP license 32/64/128
- MAC address: 64,000

PD1-C61-256/512/1024

- 1 Console
- 1 USB 2.0
- 8 GE TX/SFP combo ports
- Built-in AP license 256/512/1024

SYSTEM PERFORMANCE

Item	PD1-C61-321/641/128	PD1-C61-256/512/1024
Interface		
Port	1 Console 1 USB2.0 2 GE TX/SFP Combo WAN 8 GE TX LAN	1 Console 1 USB2.0 8 GE TX/SFP Combo
Button	RESET	Power on/off
Performance		
User capacity	1K/2K/2K	8K/16K/30K
AP capacity	32/64/128	256/512/1024
Throughput	>512Mbps	>2Gbps
Flash	512MB	2GB
DRAM	512MB	2GB
Routing table	512	2K
ACL table	512	2K
DHCP table	2K	10K
ARP table	2K	10K
VLAN	4K	4K
Appearance		
Chassis	Dimensions(WxDxH)(mm) Weight(kg)(empty)	300x200x44 2.0
Package	Dimensions(WxDxH)(mm) Weight(kg)(empty)	455x288x96 2.6
Power supply	AC 100-240V(50Hz)	443x208x66 4.2
Consumption	No-load(W) Full-load(W)	AC 100-240V, optional for dual power supplies 40 60
Operating	Temperature Humidity	0 ~ 50°C 10% ~ 90% (noncondensing)

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PRODUCT SPECIFICATIONS

- IP protocol
 - Direct IP connection, static route.
 - RIP v1/v2.
 - NAT/NPAT.
 - DHCP Server/Client/Relay.
 - NTP Server.
 - FTP Server.
 - L2 or L3 forwarding between AC and external network.
 - RIP/OSPF L3 forwarding.
- AC function
 - N+1" backup based on load sharing.
 - Load sharing on each AC in normal cases.
 - Switching load from troubled AC to another normal AC (The switchover policy can be set).
 - Port redundancy: multi-port binding.
 - Connecting AP/AC via L3 security tunnel.
 - Centralized, distributive and hybrid exchanges of L2 services.
 - Inner-AC or inter-AC roaming.
 - Centralized forwarding.
 - Forwarding all services after being centralized on AC.
 - Distributive forwarding.
 - Forwarding some AP or SSID services on a thin AP locally.
 - RTLS.
 - Probe.
- Standard
 - 802.11n, 802.11b, 802.11a, 802.11g, 802.11ax, 802.11ac.
 - 802.11d, 802.11h, 802.11i, 802.11e.
 - 802.1d, 802.1s, 802.1p, 802.1q, 802.1w.
 - 802.3, 802.3ab, 802.3u, 802.3x.
 - 802.3z, ARP, Reverse ARP, multi-LAN ARP/Proxy ARP.
 - STP/802.1Q L2 forwarding.
 - RFC791 IP, RFC792 ICMP, RFC793 TCP, RFC768 UDP.
 - RFC854 Telnet, RFC1542 BOOTP.
 - RFC1191 Path MTU Discovery.
 - RFC1519 Classless Inter-Domain Routing (CIDR).
 - RFC1812 IP router requirements.
 - RFC2236 IGMP&IGMPv2.
- RF management
 - Automatic channel.
 - Supports static channel configuration.
 - Supports automatic channel configuration when AP is powered.
 - Supports automatic channel configuration when AP is running.
 - Supports to set an automatic channel choice list.
 - Automatic transmitting power.
 - Supports to set the static transmitting power.
 - Supports the automatic transmitting power for coverage remedy.
 - Supports the \STA-based automatic transmitting power to improve the throughput.
 - Automatic rate.
 - Supports the STA-based automatic rate choice.
 - Supports to limit the maximum transmitting rate.
- AAA
 - RADIUS Client.
 - Multi-domain configuration of the authentication server.
 - Connection of active and standby authentication/charging servers.
 - Isolation of the authentication server and the charging server.
 - PPPoE authentication.
 - Portal authentication.
 - AAA accounting.
- Security
 - Open system.
 - WEP.
 - WPA/WPA2 PSK.
 - 802.1x.
 - 802.11i.
 - WAPI.
 - DDOS prevention.
 - ACL.
 - Wireless IPS/IDS.
 - Illegal AP detection.
 - Illegal terminal checkup.
 - Isolation of users' services.
 - Whitelist.
 - Static/dynamic blacklist.
 - URL filter.
- Management
 - Local interconnection based on WEB/SSH.
 - Remote control via SNMP access.
 - Uniform network management via OMC.
 - SNMP v2/v3.
 - MIB-II (RFC1213), which is based on TCP/IP Internet management base.
 - RFC1537, which is a developing protocol of MIB-II.
 - RFC1643.
 - ISO/IEC 8802-11:1999.
 - IEEE802.11b.
 - ISO/IEC 8802-11:1999/Amd 1:2000.
 - MIB that is defined by IEEE 802.11g and IEEE 802.11i.
- QoS
 - User's flow control:
 - Supports the domain-based flow control (taking VLAN or SSID as the configuration domain).
 - Supports user-level flow control or flow control based on the contract information of the Radius server.
 - Service priority:
 - Supports 802.11e, which provides different services according to session's priority.
 - Supports to map users' QoS levels according to SSID.
 - Supports 802.1p and L2 packet's priority mapping.
 - Load balance and control:
 - Supports AP/AC interconnection based on priority and load.
 - Supports load balance between adjacent APs on the basis of user quantity and flow.
 - High availability: PD1-C61 series has the ability to configure HA (High Availability) redundancy with the same AC model.

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ORDERING INFORMATION

Model	Description
PD1-C61-321	PD1-C61-321 enterprise-level intelligent wireless AC (1 CON, 1 USB, 2 GE TX/SFP combo ports, 8 GE TX LAN ports, up to 32 APs, 220V AC power supply, License included)
PD1-C61-641	PD1-C61-641 enterprise-level intelligent wireless AC (1 CON, 1 USB, 2 GE TX/SFP combo ports, 8 GE TX LAN ports, up to 64 APs, 220V AC power supply, License included)
PD1-C61-128	PD1-C61-128 enterprise-level intelligent wireless AC (1 CON, 1 USB, 2 GE TX/SFP combo ports, 8 GE TX LAN ports, up to 128 APs, 220V AC power supply, License included)
PD1-C61-256	PD1-C61-256 enterprise-level intelligent wireless AC (1 CON, 1 USB, 8 GE TX/SFP combo ports, up to 256 APs, 220V AC power supply, License included)
PD1-C61-256-2AC	PD1-C61-256-2AC enterprise-level intelligent wireless AC (1 CON, 1 USB, 8 GE TX/SFP combo ports, up to 256 APs, dual-way 220V AC power supply, License included)
PD1-C61-512	PD1-C61-512 enterprise-level intelligent wireless AC (1 CON, 1 USB, 8 GE TX/SFP combo ports, up to 512 APs, 220V AC power supply, License included)
PD1-C61-512-2AC	PD1-C61-512-2AC enterprise-level intelligent wireless AC (1 CON, 1 USB, 8 GE TX/SFP combo ports, up to 512 APs, dual-way 220V AC power supply, License included)
PD1-C61-1024	PD1-C61-1024 enterprise-level intelligent wireless AC (1 CON, 1 USB, 8 GE TX/ SFP combo ports, up to 1024 APs, 220V AC power supply, License included)
PD1-C61-1024-2AC	PD1-C61-1024-2AC enterprise-level intelligent wireless AC (1 CON, 1 USB, 8 GE TX/SFP combo ports, up to 1024 APs, dual-way 220V AC power supply, License included)