Terrabit Networks

TERRABIT NETWORKS PD1-W21-T-SERIES WAP

PD1-W21-T-Series

PD1-W21-121-T **PD1-W21-221-T**

Product Overview

PD1-W21-T-Series is designed by Terrabit and specially oriented for applications in wireless application locations such as indoor public areas.

The whole PD1-W21-T-Series has adopted the latest MIMO technology of QualCOMM, which renders you a secure, stable and hi-speed wireless network. PD1-W21-T-Series is ceiling-mounted, compact, and beautiful so that they can fit in indoor public areas. They can be used together with in-wall or desktop WAPs to achieve entire WIFI coverage indoors. Furthermore, the adoption of PoE power supply and Adaptor by PD1-W21-T-Series makes their installation and application more convenient.

Main Characteristics

Network Performance

The application of the 802.11n MIMO technology on PD1-W21-T-Series enables the transmission rate on the physical layer to reach up to 1166Mbps so that PD1-W21-T-Series can be widely used in indoor locations with many users, such as clubs and restaurants. This series of WAPs has high throughput so that they can meet the access requirements of up to 200 users and make it possible for 80 users to work concurrently.

Flexible Configuration

Due to their wireless ceiling-mounted installation mode, they, other than other kinds of APs like wall-mounted APs and indoor distributive APs, have their own advantages when being installed in indoor locations. They occupy small indoor space, exert no bad influence on indoor environment and are easy to deploy and install. That's why they are the best choice to establish WiFi networks in indoor public areas. What's more, it would be more flexible to deploy the fat AP mode in small-scale networks.

Wireless Security

PD1-W21-T-Series supports multiple data encryption criteria, including WEP, WPA, WPA2, WPA-psk, WPA2-psk and 802.11i. They also provide these security functions such as MAC/WEB/802.1x authentication, illegal AP checkup, isolation of wireless users, and wireless user blacklist/white list, providing secure networks for users.

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Enterprise-Level Application

PD1-W21-T-Series has following functions: IEEE 802.11n, flow control/QoS, automatic receiving time, automatic terminal identification, multiple SSIDs, dynamic power/rate regulation, dynamic reception flexibility, and fat or thin AP mode.

Collaborating with Terrabit AC controllers, PD1-W21-T-Series can flexibly realize automatic channel choice, power adjustment, user and service load balance, which brings the enterprise-level users an easy wireless network.

One-Stop Solution

Collaborating with PD1-C61-Series AC controllers, layer-2 and layer-3 POE switches, broadband security flow gateways, large commercial egress gateways, PD1-C82 cloud platforms and network management system, PD1-W21-T-Series can provide one-stop solution to the user including authentication, pushing, operating, security, accounting and monitoring.

Hardware Specifications

Model		PD1-W21-121-T	PD1-W21-221-T
Interfaces	Standard interface	2 FE ports	1 GE WAN port, 2 GE LAN ports
	Operation key	RESET key	RESET key
Wireless-related parameters	Wireless module	1 wireless module. 802.11b/g/n. MIMO 2*2	2 wireless modules. 802.11a/b/g/n/ac. MIMO 2*2
	Best performance	≥100 users' access, ≥50 concurrent users' access @1Mbps ≥16 SSID, ≥300M	≥200 users' access, ≥80 concurrent users' access @2Mbps ≥32 SSID, ≥1166M
	Working frequency	2.412~2.4835GHz	2.412~2.4835GHz, 5.150~5.250GHz, 5.250~5.350GHz 5.470~5.725GHz, 5.745~5.825GHz
	Antenna	Built-in antenna 5dBi	Built-in dual-frequency antenna 3dBi
	Output power	27dBm	24dBm/path
Peripheral parameters	Size	Φ=200mm, H=30mm	180×180×25mm
	Weight	≤270g	≤300g
	Power supply	802.3af POE (suggested)	802.3at POE (suggested)
	Power consumption	Peak value≤8W	Peak value≤20W
	Temperature	-10^{0}C~50^{0}C	-10^{0}C~50^{0}C
	Humidity	5%~95% (non-condensing)	5%~95% (non-condensing)

Software Specifications

Item		PD1-W21-121-T	PD1-W21-221-T
Working mode	FAT AP, FIT AP	Support	Support
Network protocols	802.1Q VLAN 4K, 802.1p priority queue, IPv6 Passthrough, DHCP snooping, IGMP proxy, DHCP Server, NAT PPPoE, SNMP, SNTP	Support	Support
Wireless security	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WEP 64/128-bit Encryption EAP-SIM/EAP-AKA/EAP-MD5/EAP-TLS/EAP-TTLS/PEAP, SSID broadcast disable, MAC address filtering 802.1x RADIUS client with PAP/CHAP	Support	Support
WLAN features	User isolation, Fair access time, Automatic channel choice, Automatic power control Wireless terminal identification	Support	Support
	5G prior access	N/A	Support
Management mode	Web, Telnet, CLI, AC centralized management, SNMP	Support	Support

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Ordering Information

Model	Description
PD1-W21-121-T	PD1-W21-121-T ceiling-mounted intelligent WAP (2 100M ports, 802.11b/g/n, single-frequency dual-path wireless coverage, MIMO2*2 built-in antenna, PoE power input)
PD1-W21-221-W	PD1-W21-221-T ceiling-mounted intelligent WAP (3 Gigabit ports, 802.11 a/b/g/n/ac, dual-frequency dual-path wireless coverage, MIMO2*2 built-in antenna, PoE and adaptor power input)