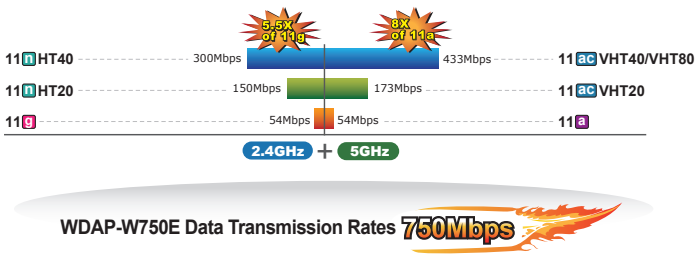
750Mbps 802.11ac In-wall Wireless Access Point with USB Charger

All-in-One Manageable Dual-band Wi-Fi Solution for Hotel Industry

PLANET WDAP-W750E enables the hospitality industry to build a more high-speed wireless network with **802.1Q VLAN** and **PLANET AP controller**. The WDAP-W750E is an **802.11ac Dual Band** In-wall Wireless Access Point that conforms to the **standard 86-type** electrical junction box and supports **IEEE 802.3af/at PoE**. It is suitable for in-wall installation enabling to integrate the hotel network with its all-in-one interface. The WDAP-W750E also provides stable 2.4GHz and 5GHz wireless signals simultaneously that make access to internet viable in regard to whatever nature of work you are into.

Concurrent Dual Band and 11AC Wireless Range Extension

The WDAP-W750E conforms to IEEE 802.11a/b/g/n/ac Dual Band standard technology; therefore, it can provide a wireless speed of up to **433+300Mbps**. With **concurrent dual-band** Wi-Fi transmission capability, the WDAP-W750E is more flexible than the traditional repeater that only utilizes single band for range extension in that it can quickly and easily extend high-speed 11ac 5GHz and 11n 2.4GHz wireless networks simultaneously.



Standard Compliant Hardware Interface

- Compliant with IEEE 802.11ac wireless technology with data rate of up to 750Mbps
- One 10/100BASE-TX port and one PoE powered device (PD) port
- USB charger port for charging most of mobile devices easily
- European 86-type wall outlet compatibility

Secure Network Connection

- Advanced security: 64-/128-bit WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK (TKIP/AES encryption), 802.1x
- Supports wireless MAC address filtering control to limit the connected wireless clients
- Supports 802.1Q VLAN and SSID-to-VLAN mapping
- Supports IP/Port/MAC address/URL filtering, DoS, SPI firewall
- Supports DMZ and port forwarding
- Bandwidth control per IP address to increase network stability

Multiple Operation Modes and Wireless Features

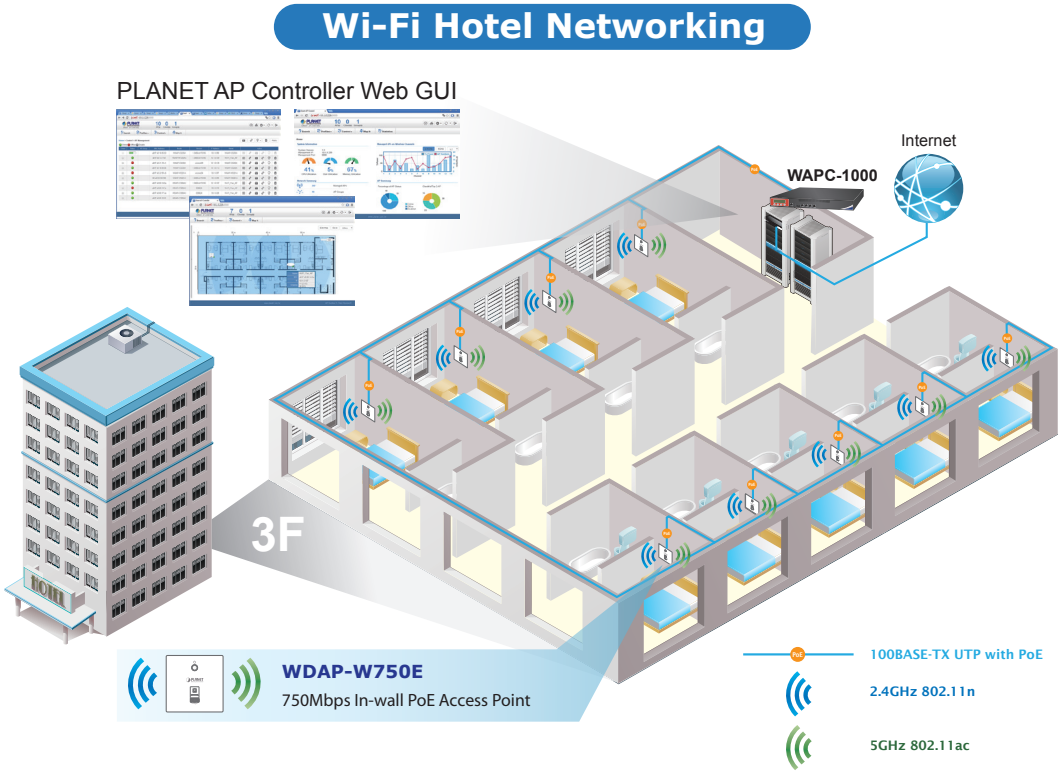
- Multiple operation modes: AP, Gateway, Repeater, WDS
- WMM (Wi-Fi multimedia) provides higher priority to multimedia transmitting over wireless
- Coverage threshold to limit the weak signal of clients occupying session
- Real-time Wi-Fi channel analysis chart and client limit control for better performance

Easy Deployment and Management

- Supports PLANET AP Controllers in AP mode
- Easy discovery by PLANET Smart Discovery
- Self-healing mechanism through system auto reboot setting
- System status monitoring through remote Syslog Server
- Supports PLANET DDNS/Easy DDNS

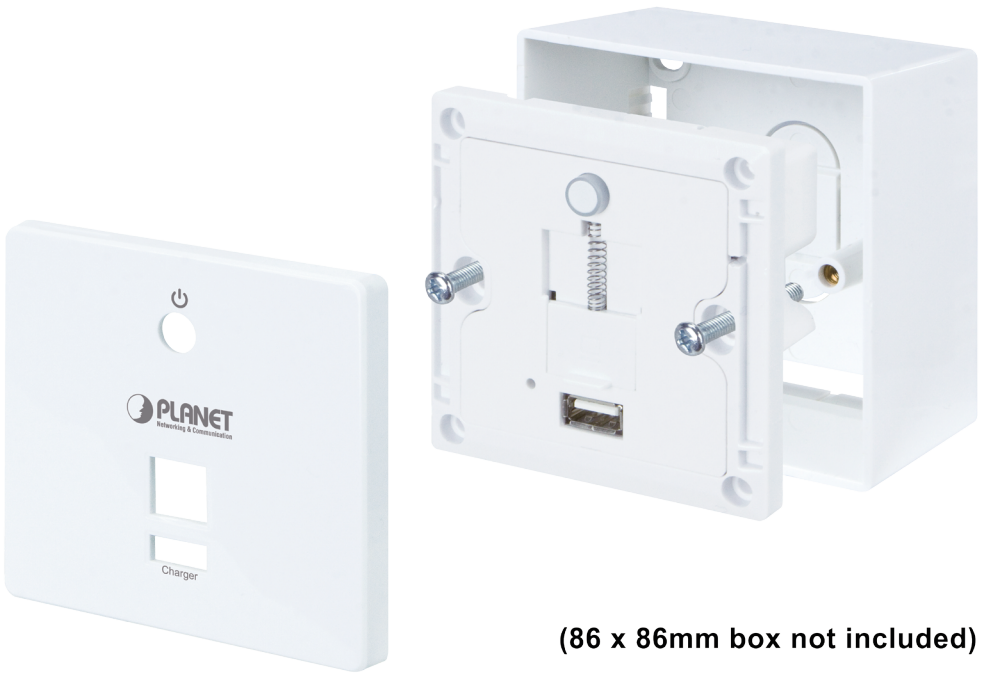
Easy Deployment with PLANET AP Controller

To expand the capability of in-wall AP, PLANET WDAP-W750E comes with centralized management, enabling the hospitality industry to deploy multiple APs with a single interface of **AP controller** and reducing repetitive tasks including **AP provisioning**, **AP status monitoring** and **AP maintenance**. In addition, by connecting with PLANET AP controller, PLANET WDAP-W750E helps hoteliers optimize their wireless network within minutes.



Suitable for Any Room Installation without Spoiling Interior Design

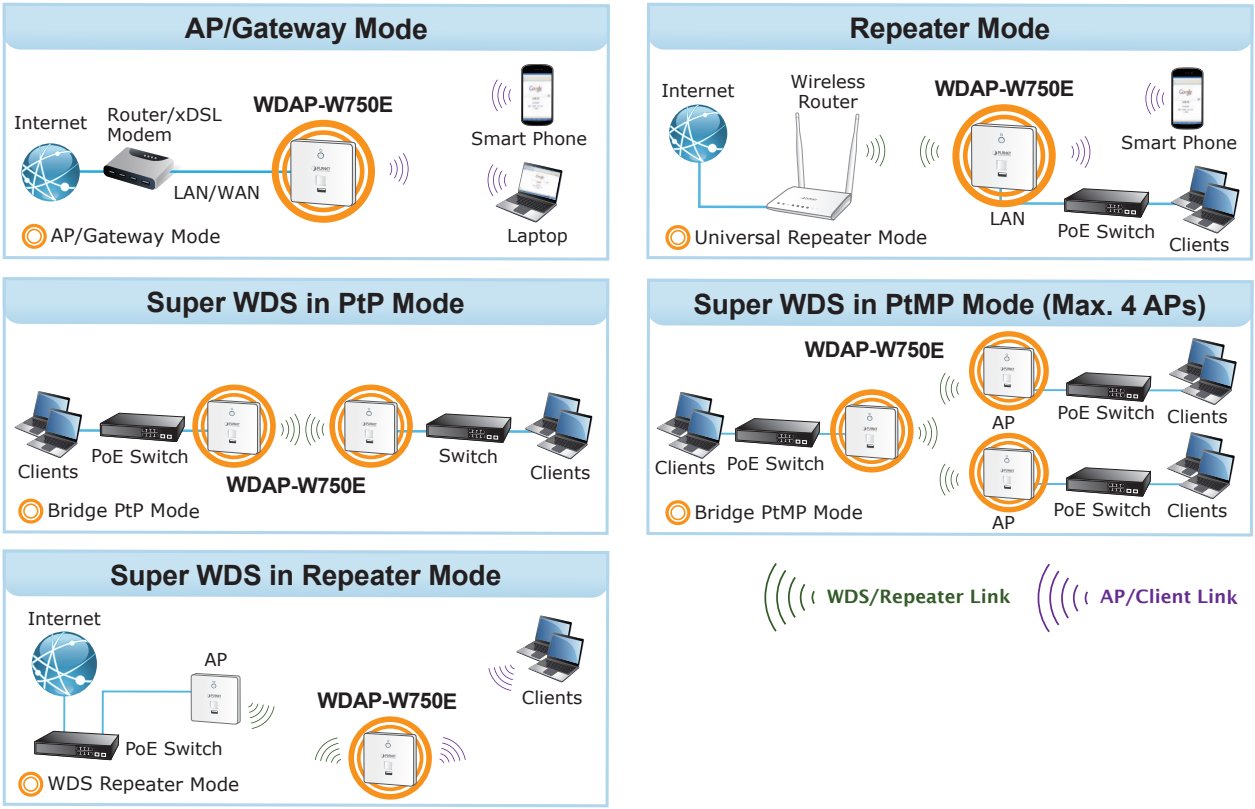
Featuring attractive in-wall design, the WDAP-W750E can be firmly installed into the wall via the standard **86 x 86 mm** European outlet box, which makes electrical wiring invisible and convenient for room installation without affecting the original interior design. It is ideal for hotels, residences, hospitals and more to establish any kind of wireless network.



(86 x 86mm box not included)

Comprehensive Wireless Operation Modes

The WDAP-W750E supports multiple wireless communication connectivities such as **AP, Gateway, Repeater, Super WDS (Point-to-Point (PtP)** and **WDS Point-to-Multipoint (PtMP)**, allowing users to comprehensively experience various applications.

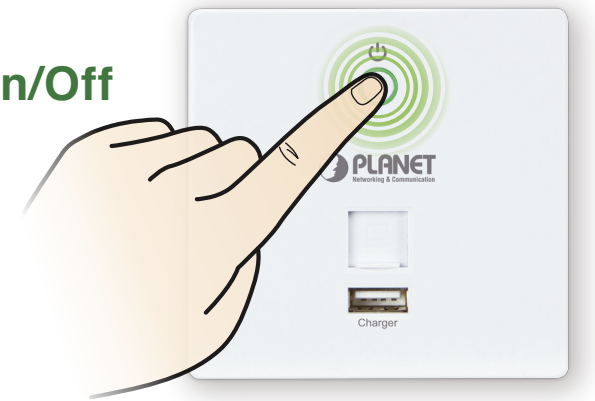


Easy to Use ON/OFF and USB Charger

Having a good night sleep is what we need in the hotel. It is easy to turn ON/OFF wireless and LED on the front panel of the WDAP-W750E. When you don't need to use wireless LAN, just press the button to close the wireless and LED power. To provide better services for travelers, the WDAP-W750E comes with a built-in USB 2.0 charger whose output of 5V DC 0.5A power can charge any USB compliant mobile devices, e.g., cell phones, iPads, and other handheld devices. Thus, the WDAP-W750E brings convenience to pedestrians, travelers and other users without having to worry about forgetting to carry an AC adapter.

One-touch Power On/Off

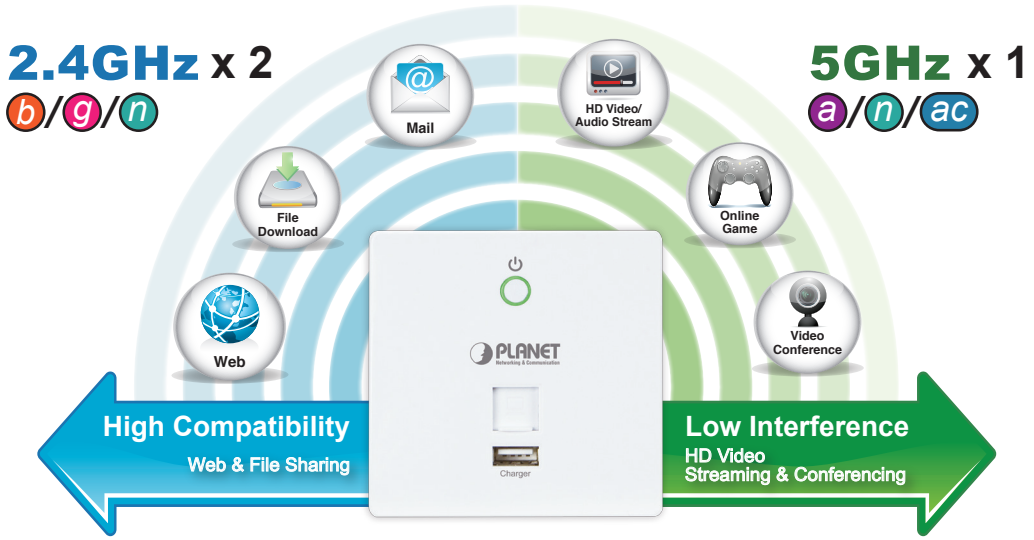
Enjoy Wireless as Needed



Applications

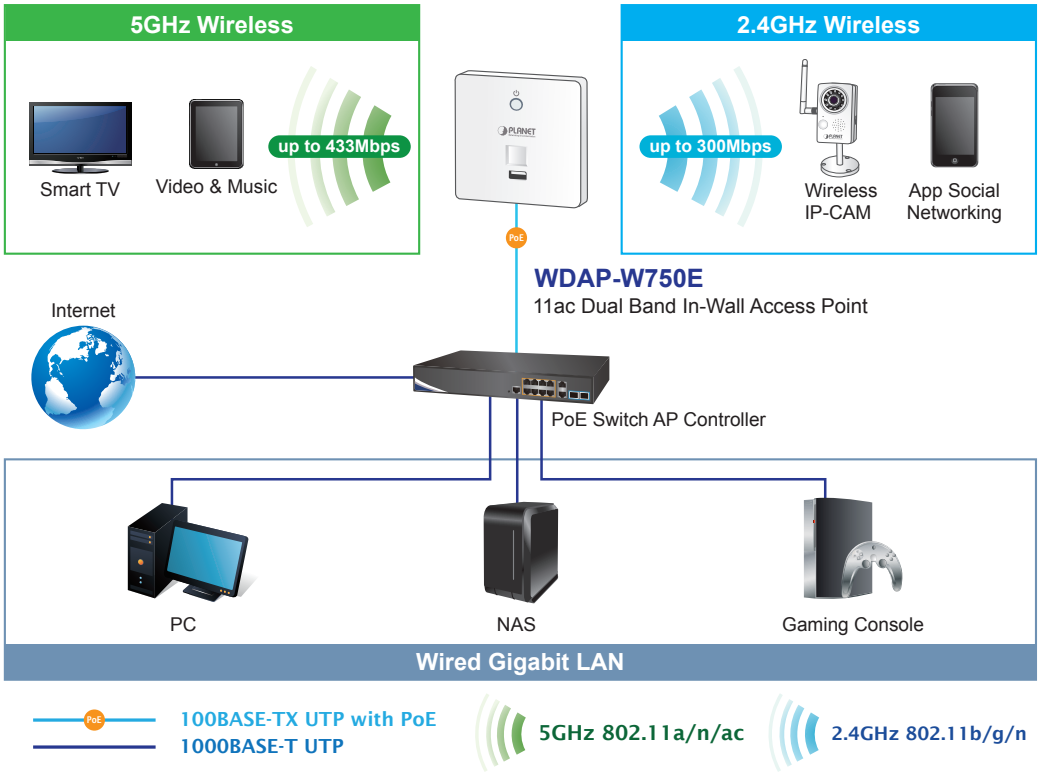
Simultaneous Dual Band Wireless Connectivity

Since there are more and more wireless applications and electrical devices using the radio frequency of 2.4GHz, the wireless channel of 2.4GHz has been already too crowded for clients to enjoy the high-speed wireless connection. In order to avoid the wireless interference between each other, PLANET WDAP-W750E provides users with the radio frequency of 5GHz for watching HD videos or playing online games. At the same time, it enables other users to surf the Internet via the original radio frequency of 2.4 GHz.



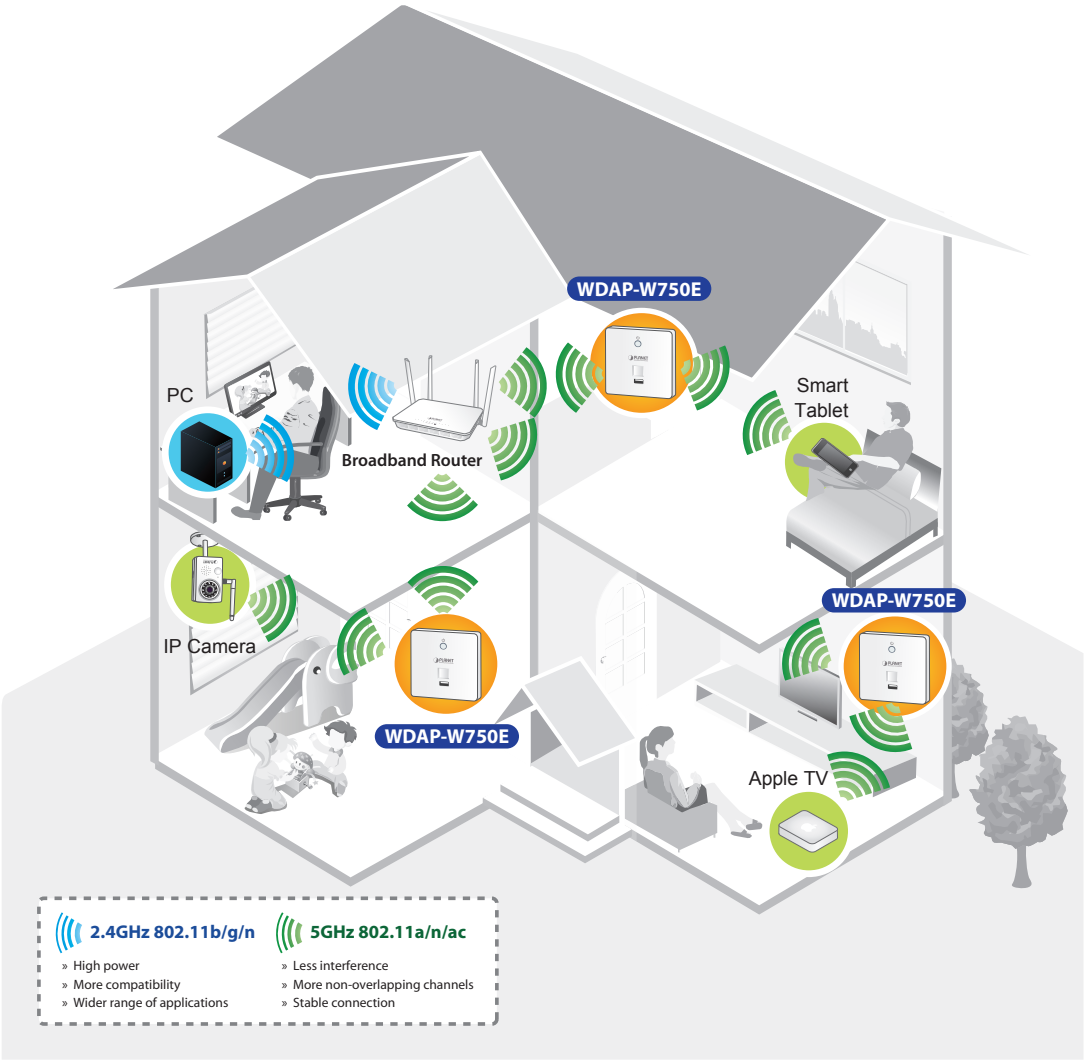
In-wall Design Ideal for High-density Wireless Network

The WDAP-W750E is specifically designed for hotels, offering guests convenient wireless LAN service. With the standard 86 type electrical outlet box installed and PLANET AP controller supported, you don't need to spend extra time and cost to deploy the wireless network. Its compact and all-in-one interface adapted to the room can match any decor and makes wiring invisible. The WDAP-W750E brings convenience to system administrators or machine operators as it comes with centralized management characteristic and comprehensive operation modes to fulfill any application at hotels and residences. No expensive instruments or complex back-end subscriber managed systems are required for deployment.



Better Coverage

The WDAP-W750E is the characterization of in-wall design, and advanced 2T2R MIMO (2.4G) and 1T1R (5G) technology which reduces the effect of dead spot, so that it can get better coverage of the existing wireless network. Furthermore, the repeater mode supported by the WDAP-W750E helps to minimize the effort of installation and cabling cost.



Specifications

Product	WDAP-W750E		
Hardware Specifications			
Interfaces	LAN	1 x 10/100BASE-TX RJ45 port Auto-negotiation and auto MDI/MDI-X	
	PoE Port	1 x 10/100Mbps auto MDI/MDI-X RJ45 port (rear panel) * IEEE 802.3af/at PD port	
	USB Port	USB 2.0, Type A, 5V DC, 0.5A output	
Antennas	Gain	2 x 2dBi antenna	
Button	Reset button (Press over 15 seconds to reset the device to the factory default)		
LED Indicators	Wireless		
Dimensions (W x D x H)	86 x 35 x 86 mm		
Weight	106 ± 5g		
Power Requirements	48V DC IN, 0.5A, IEEE 802.4af/at PoE+		
Power Consumption	< 5W		
Mounting	In-wall mount		
Wireless Interface Specifications			
Standard	IEEE 802.11ac IEEE 802.11n IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x flow control		
Media Access Control	CSMA/CA		
Data Modulation	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK)		
Band Mode	2.4G / 5G concurrent mode		
Frequency Range	**2.4GHz :** FCC: 2.412~2.462GHz ETSI: 2.412~2.472GHz **5GHz :** FCC: 5.180~5.240GHz, 5.745~5.825GHz ETSI: 5.180~5.700GHz		
Operating Channels	FCC: 36, 40, 44, 48, 149, 153, 157, 161, 165 (9 channels) ETSI: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140 (16 channels) 5GHz channel list will vary in different countries according to their regulations.		
RF Power	<20dBm (EIRP)		
Receive Sensitivity	Network Mode	Data Rate	Receive Sensitivity (dBm)
	2.4GHz		
	802.11b	1Mbps	-88
		11Mbps	-85
	802.11g	6Mbps	-88
		54Mbps	-68
	802.11n	MCS0/MCS8	-68
		MCS7/MCS15	-68
	802.11n HT40	MCS0/MCS8	-93
		MCS7/MCS15	-75
	5GHz		
	802.11a	6Mbps	-92
		54Mbps	-75
	802.11n HT20	MCS0/MCS8	-91
		MCS7/MCS15	-72
	802.11n HT40	MCS0/MCS8	-88
		MCS7/MCS15	-70
	802.11ac VHT20	MCS0	-92
		MCS8	-70
	802.11ac VHT40	MCS0	-89
		MCS9	-65
	802.11ac VHT80	MCS0	-87
		MCS9	-61

Software Features	
LAN	Static IP
	Supports IP-MAC binding
Wireless Mode	Access Point Gateway Repeater WDS (PtP/PtMP)
Channel Width	20MHz, 40MHz, 80MHz
Encryption Security	64-/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X
Wireless Security	Enable/Disable SSID Broadcast
	Wireless – filtering of max. 32 MAC addresses
	User Isolation
Max. SSIDs	4
Max. Clients	64 (20 is suggested, depending on usage)
Max. WDS Peers	4
Wireless QoS	Supports Wi-Fi Multimedia (WMM)
Wireless Advanced	Auto channel selection
	5-level transmit power control (100%, 75%, 50%, 25%, 12.5%)
	Client limit control, coverage threshold
	Wi-Fi channel analysis chart
	Fast Roaming
Status Monitoring	Device status, wireless client list
	PLANET Smart Discovery
	DHCP client table
	System Log supports remote syslog server
VLAN	IEEE 802.1Q VLAN (VID: 3~4094)
	SSID-to-VLAN mapping to up to 4 SSIDs
Self-healing	Supports auto reboot settings per day/hour
Management	Remote management through PLANET DDNS/Easy DDNS
	Configuration backup and restoration
	Supports UPnP
	Supports IGMP Proxy
	Supports PPTP/L2TP/IPSec VPN Pass-through
	SNMP v1/v2c/v3 support, MIB I/II, Private MIB
Central Management*	Applicable controllers: WAPC-500, WAPC-1000, Smart AP Control (SAPC), WS-1232P, WS-2864PVR and UNI-NMS.
Environment & Certification	
Temperature	Operating: -20 ~ 55 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 95% (non-condensing)
Regulatory	CE, RoHS

*Remarks: The feature will be supported through firmware/system upgrade.

Ordering Information

WDAP-W750E	750Mbps 802.11ac In-Wall Wireless Access Point with USB Charger (EU Type, 802.3af/at)

Related Wireless Products

WNAP-W2200UE	300Mbps 802.11n In-Wall Wireless Access Point w/ USB Charger (EU Type, 802.3af/at)
WDAP-C7200E	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point (802.3at PoE, 2 10/100/1000T LAN)
WAPC-1000	Enterprise-class Wireless LAN Controller supporting more than 1000 APs

* To have the best performance and wireless connection, matching it with the above-related products is recommended.

Related PoE & APC Products

WGR-500-4PV	Industrial Wall-mount Gigabit Router with 4-Port 802.3at PoE+ and LCD Touch Screen
WS-1232P	Wireless AP Managed Switch with 8-Port 802.3at PoE + 2-Port 10G SFP+
WS-2864PVR	Wireless AP Managed Switch with 24-Port 802.3at PoE + 4-Port 10G SFP+ + LCD Touch Screen and 48VDC Redundant Power
WAPC-500	Enterprise-class Wireless LAN Controller supporting over 500 APs (4 10/100/1000T LAN, LCD)
WAPC-1000	Enterprise-class Wireless LAN Controller supporting over 1000 APs (4 10/100/1000T LAN, LCD)

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)
Tel: 886-2-2219-9518 Fax: 886-2-2219-9528
Email: sales@planet.com.tw www.planet.com.tw