900Mbps Dual Band Ceiling Mount Wireless Access Point
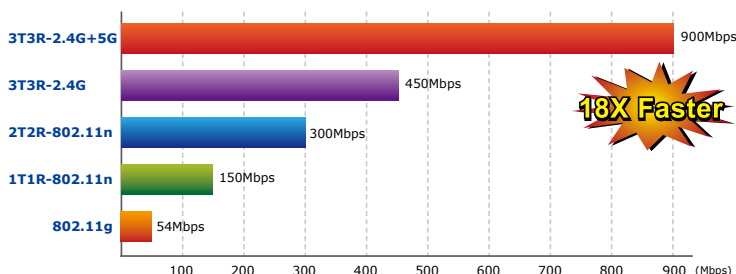
Incredibly ultra high speed and perfect coverage

The WDAP-C7400 with 3 built-in high sensitivity dual-band antennas and the simultaneous dual-band 2.4GHz + 5GHz wireless access capability transmits power up to 500mW. It comes with an attractive flying saucer appearance and is compliant with the IEEE 802.3at PoE PD power scheme, thus making deployment easy and mounting to the ceiling and wall of villa and hotel lobbies, exhibition halls and other large rooms flexible. This brings the wireless network more innovations.

Ultra High Speed 802.11n Wireless Type

The WDAP-C7400 supports **IEEE 802.11a/b/g/n dual band** standards with **3T3R MIMO** technology; therefore, it provides the wireless speed up to **450+450Mbps** which is 18X faster than the traditional 11g access point. Moreover, the WDAP-C7400 is equipped with two **Gigabit Ethernet** ports. Compared with the general wireless AP, the WDAP-C7400 offers faster transmission speed for the network applications and less interference to enhance data throughput. The incredible wireless speed makes it ideal for handling multiple HD movie streams, high resolution on-line games, stereo music, VoIP and data streams at the same time stably and smoothly.

Standard Compliant Hardware Interface

- Complies with IEEE 802.11a/b/g/n Wireless LAN speed up to 900Mbps
- 2 x 10/100/1000Base-T Ports with 1-port PoE PD (Powered Device)
- IEEE Standard 802.3at Power Over Ethernet Design

RF Interface Characteristics

- 2.4GHz+5GHz Dual Band concurrent, more efficient in carrying high load traffic
- 3T3R MIMO technology for enhanced throughput and coverage
- High Output Power up to 500mW with multiple adjustable transmit power control
- High Speed up to 900Mbps (450+450Mbps Transmit/ Receive) data rate

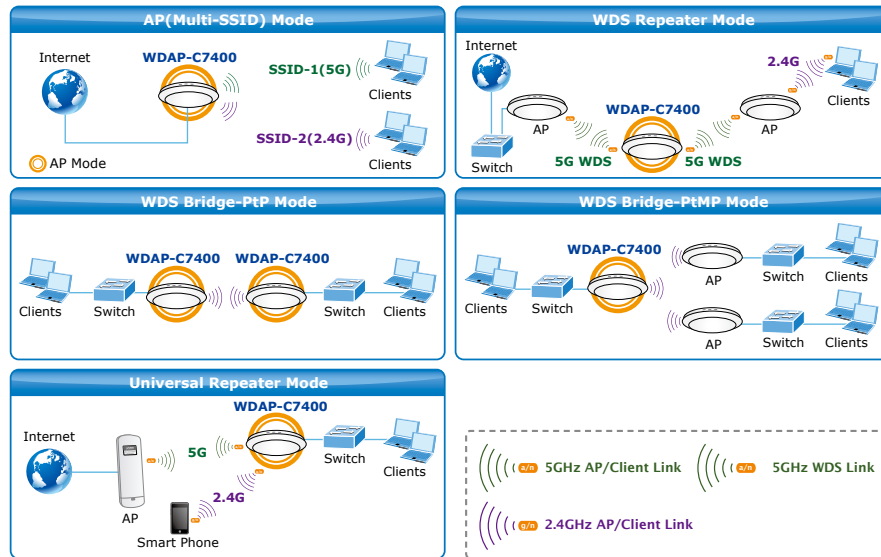## Secure Network Connection

- Advanced security: 64/128-bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK (TKIP/AES encryption) and RADIUS authentication
- Supports MAC address filtering

Easy Installation & Management

- Stylish ceiling mount design
- User friendly Web-based UI
- SNMP-based management interface
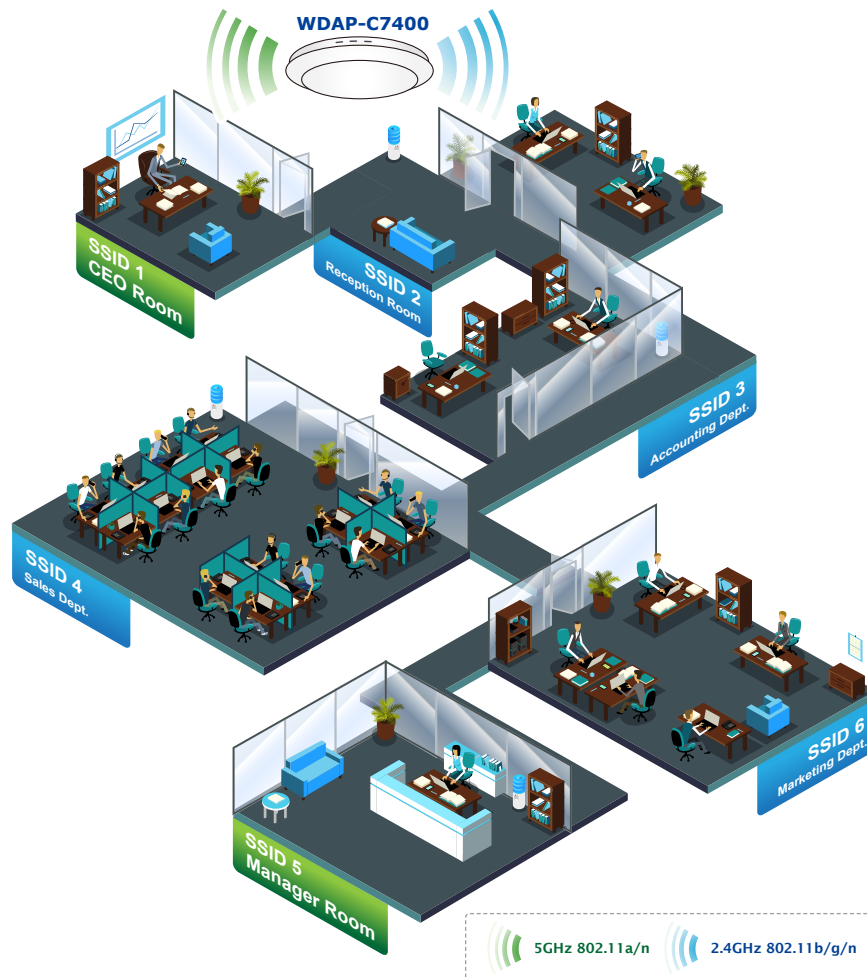- Centralized Management Utility allows administrator to monitor and configure

	Speed
3T3R-2.4G+5G	900Mbps
3T3R-2.4G	450Mbps
2T2R-802.11n	300Mbps
1T1R-802.11n	150Mbps
802.11g	54Mbps

18X Faster

100 200 300 400 500 600 700 800 900 (Mbps)

Easy Setup for Multiple Wireless Modes

The WDAP-C7400 supports multiple wireless modes including AP, Bridge, Repeater and Universal Repeater for different network applications. The administrator can configure the WDAP-C7400 easily and quickly through a couple of simple steps. It is so easy to extend the existing wired network by the WDAP-C7400. The WDAP-C7400 definitely provides a complete network solution for the small business and SOHO users.

Full Support of Wireless Security Encryption

In aspect of security, besides 64/128-bit WEP encryption, the WDAP-C7400 integrates WPA / WPA2, WPA-PSK / WPA2-PSK and 802.1x Radius authority to secure and protect your wireless LAN. It provides the wireless MAC filtering and SSID broadcast control to consolidate the wireless network security and prevent unauthorized wireless connection. Made to fulfill the demands of enterprise wireless network and other applications, the WDAP-C7400 enhances security and management features such as multiple SSID. It can create up to 8 virtual standalone APs with 8 different SSIDs in 2.4GHz frequency band, and up to 2 SSIDs in 5GHz frequency band according to individual security levels and encryption scheme of various wireless devices.
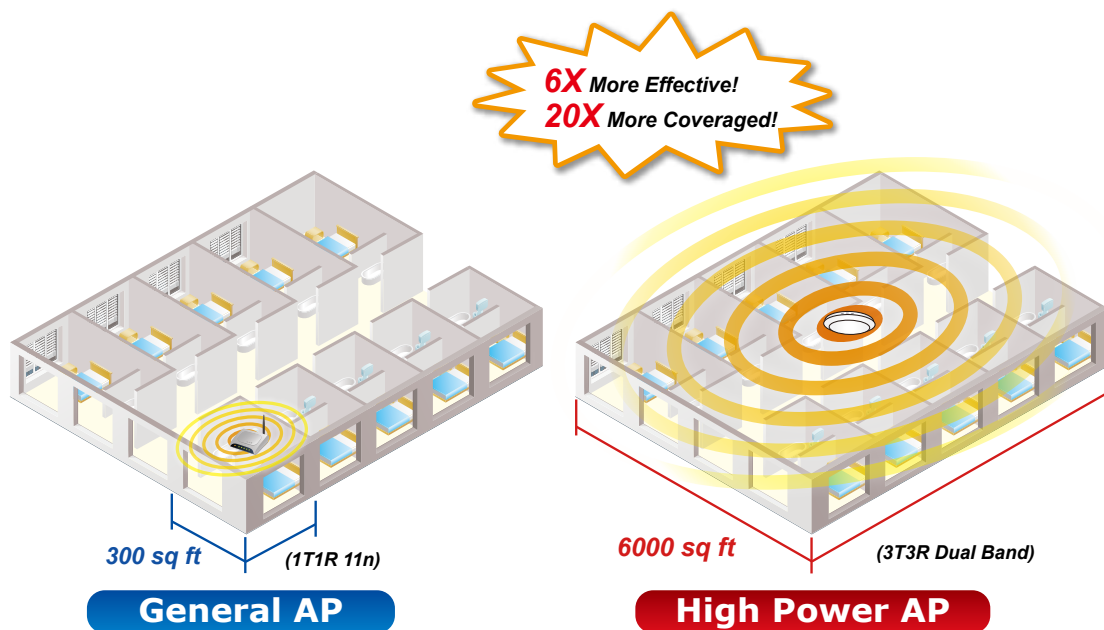
Unique Ceiling Mountable Design

Featuring attractive flying saucer appearance and ceiling mount design, the WDAP-C7400 can be firmly installed on the ceiling or the wall, which is easy and convenient in client-side installation. The ceiling mount design smartly integrated into the environment. Its streamlined body without the protruding antennas also gives effects of embellishment in the surroundings.
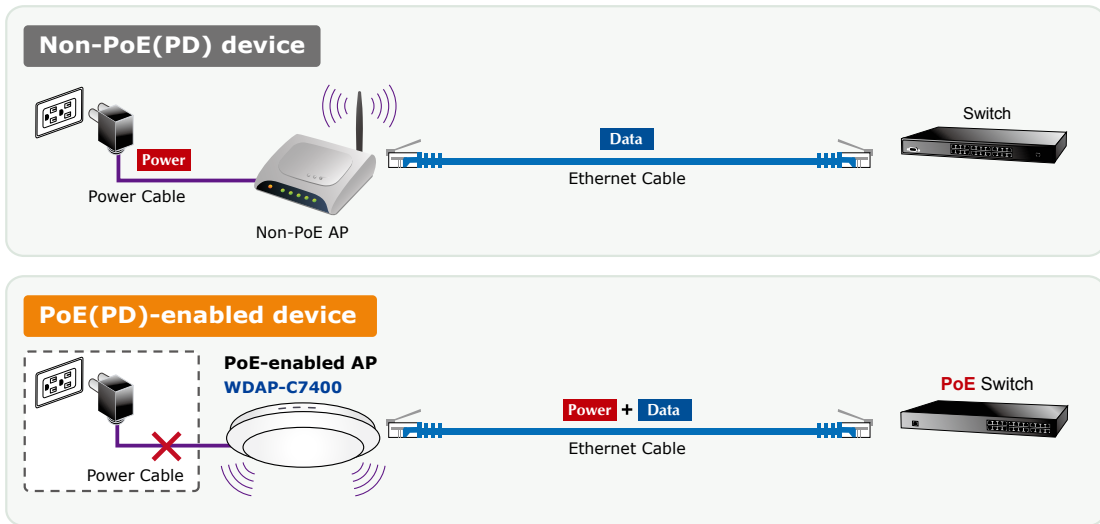

No borderline indoor wireless coverage

The WDAP-C7400 is built-in with high power amplifier and 3 high sensitivity dual-band antennas which provide stronger signal and excellent coverage even in the wide-ranging or bad environment. With adjustable transmit power option, the administrator can flexibly reduce or increase the output power for various environments, thus reducing interference to achieve maximum performance. The WDAP-C7400 is smart and powerful wireless solution for the needs of a wireless network for a large indoor environment.

6X More Effective!
20X More Coveraged!

300 sq ft   (1T1R 11n)
General AP

6000 sq ft   (3T3R Dual Band)
High Power AP

Flexible Deployment with PoE Feature

Compliant with IEEE 802.3at Power over Ethernet standard, the WDAP-C7400 can be powered and networked via a single UTP cable. It thus reduces the needs of extra cables and dedicated electrical outlets on the wall, ceiling or any other place which is difficult to reach. The wireless network deployment becomes more flexible and worry-free from the power outlet locations.

Non-PoE(PD) device

Power Cable
Non-PoE AP
Data
Ethernet Cable
Switch

PoE(PD)-enabled device

PoE-enabled AP
WDAP-C7400
Power Cable
Power + Data
Ethernet Cable
PoE Switch

Easy Installation and Management

With user-friendly Web UI and Central Management Utility, it is easy for administrator to set up the WDAP-C7400, even for a user who never experiences in setting up a wireless network. In addition, its SNMP feature allows the system administrator to remotely monitor the network devices more efficiently.
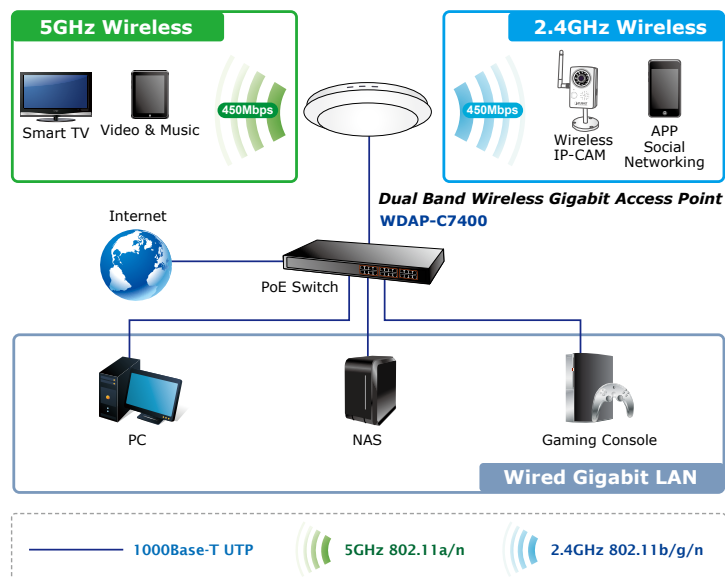
Applications

Ceiling Mount Design makes it more attractive in room installation

The WDAP-C7400 is specifically designed to have wider coverage in large space, offering guests convenient Wireless LAN service. With the stylish ceiling or wall mount design, you don't need to spend extra time and cost to deploy the wireless network. Its fashionable flying saucer appearance adapted to the room can match any decor without affecting the original interior design. The WDAP-C7400 supports standard 802.3at PoE power scheme, effectively reducing the cabling cost. The WDAP-C7400, with the Planet Smart Discovery Utility and valuable unified management software, brings the most convenience to system administrators or machine operators. No expensive instruments or complex back-end subscriber managed systems are required for deployment.

High Power and Dual Band capability makes it more powerful in Wi-Fi coverage

The WDAP-C7400 is designed with high power transmitting 10X longer in distance and 10X wider in coverage than general indoor access point. Furthermore, the user controllable TX power can be adjusted to apply to different environmental characteristics. The WDAP-C7400 delivers the Dual Band technology to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mail and surf the Internet via the 2.4GHz band and simultaneously watch High-Definition (HD) video or any other multimedia application via 5GHz band. Moreover, the Gigabit Ethernet port of the WDAP-C7400 offer ultra-fast wired connections that can utilize the maximum wireless bandwidth. With outstanding stability on high-speed wireless transmission, the WDAP-C7400 can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.

Specifications

Model	WDAP-C7400	
Hardware Specifications		
Interface	PoE Port:	1 x 10/100/1000Mbps Auto MDI/MDI-X RJ45 port * IEEE 802.3at compliant PD Port
	LAN Port:	1 x 10/100/1000Mbps Auto MDI/MDI-X RJ45 port
PoE	IEEE 802.3at	
Antenna	Built-in 4.5dBi dual-band antenna x 3	
Reset Button	Reset button at rear panel Press over 7 seconds to reset the device to factory default	
LED Indicators	PWR, 2.4GHz, 5GHz LED	
Material	Plastic	
Dimensions (Φ x H)	200 x 40 mm	
Weight	450g	
Power Requirements	52~56V DC, 0.7A (max.), IEEE 802.3at 30W power source is required.	
Power Consumption	25W (max.)	
Wireless interface Specifications		
Standard	IEEE 802.11a/b/g/n IEEE 802.3u IEEE802.3ab IEEE 802.3at	
Modulation Type	DSSS (DBPSK / DQPSK / CCK) OFDM (BPSK / QPSK / 16-QAM / 64-QAM) MIMO	
Frequency Band	Simultaneous 2.4 GHz and 5 GHz 2.4GHz: 2.412~2.484GHz 5GHz: 5.180~5.240GHz; 5.745~5.825GHz	

Operating Channel	**2.4GHz:**
	  America/ FCC: 2.412~2.462GHz (11 Channels)
	  Europe/ ETSI: 2.412~2.472GHz (13 Channels)
	5GHz:
	  America/ FCC:
	  11a : 5.180~5.240GHz; 5.745~5.825GHz (36, 40, 44, 48, 149, 153, 157, 161, 165)
	  11a/n: 5.180~5.220GHz; 5.745~5.785GHz (36, 44, 149, 157)
	  Europe/ ETSI:
	  11a: 5.180~5.240GHz (36, 40, 44, 48)
	  11a/n: 5.180~5.220GHz (36,44)
	  ∗ 5GHz channel list may vary in different countries according to their regulations.	

Channel Width	20 or 20/40MHz	
Data Rate	2.4GHz: up to 450Mbps 5GHz: up to 450Mbps	
Transmission Distance	Indoor up to 100m	
RF Power (Intentional Radiator)	11a	1 - 54Mbps	21~22dBm
	11b	1 - 11Mbps	26.5~27.5dBm
	11g	6 - 9Mbps	26dBm
		12 - 18Mbps	25dBm
		24 - 36Mbps	24.5dBm
		48 - 54Mbps	23.5dBm
	11n	MCS 0-7	23dBm
		MCS 8-15	23dBm
		MCS 16-23	23dBm
Wireless Management Features		
Wireless Modes	Access Point, WDS PtP, WDS PtMP, Repeater, Universal Repeater	
Multiple-SSID	2.4GHz: up to 8 5GHz: up to 2	
WDS Peer	Up to 4	
Encryption Security	WEP (64/128-bit) WPA-PSK (TKIP) / WPA2-PSK (AES) WPA (TKIP) / WPA2 (AES) 802.1x Authentication	
Wireless Security	Enable/Disable SSID Broadcast	
	Wireless LAN ACL (Access Control List) MAC filtering	
Wireless Advanced	AP Isolation: enable to isolate each connected wireless client from accessing to each other mutually	
	Supports 802.11e WMM (Wi-Fi Multimedia)	

Max. Supported Clients	Wire	20	
	Wireless	2.4GHz:	20 (system limited to 124)
		5GHz:	25 (system limited to 124)
Diagnostic Tool	Ping, Traceroute		
System Management	Web-based (HTTP) management interface SNMP management Supports Planet Smart Discovery & Centralized Management Utility System Log, Log Server		
Standards Conformance			
IEEE Standards	IEEE 802.11n IEEE 802.11a IEEE 802.11g IEEE 802.11b IEEE 802.11i IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3at		
Other Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, SNTP		
Environment & Certification			
Temperature	Operating: -10 ~ 45 degrees C Storage: -30 ~ 70 degrees C		
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 10 ~ 90% (non-condensing)		
Regulatory	FCC, CE, RoHS, WEEE		

Ordering Information

WDAP-C7400	900Mbps Dual Band Ceiling Mount Wireless Access Point

Related Wireless Products

WDL-U700	300Mbps Dual Band 802.11n Wireless USB Adapter
WNL-U556M	300Mbps 802.11n Wireless Micro USB Adapter
WNL-U554M	802.11n Micro Wireless USB 2.0 Adapter
WNL-U554A	802.11n Wireless USB 2.0 Adapter External 3dBi Antenna
WNL-9501	802.11n Wireless PCI Express Adapter

Related PoE Products

POE-161	IEEE 802.3at Gigabit High Power over Ethernet Injector (external power)
POE-163	IEEE 802.3at Gigabit High Power over Ethernet Injector (internal power)
WGSD-10020HP	8-Port 10/100/1000Mbps + 2 100/1000X SFP Managed 802.3at PoE Switch
WGSW-24040HP/ WGSW-24040HP4	24-Port 10/100/1000Mbps 802.3at PoE+ with 4 Shared SFP Managed Switch
WGSW-20160HP	16-Port 10/100/1000Mbps 802.3at PoE + 4-Port Gigabit TP / SFP Combo Managed Switch
SGSW-24040HP	24-Port 10/100/1000Mbps with 4 Shared SFP 802.3at PoE Managed Stackable Switch
GSW-2400HPS	24-Port 10/100/1000Mbps 802.3at PoE+ Web Smart Ethernet Switch
GSW-1600HP	16-Port 10/100/1000Mbps 802.3at PoE+ Ethernet Switch
GSD-808HP	8-Port 10/100/1000bps 802.3at PoE Desktop Switch
GSD-808HP2	8-Port 10/100/1000Mbps 802.3at PoE Desktop Switch - 240W
HPOE-460	4-Port IEEE 802.3at High Power over Ethernet Injector Hub
IGS-10020HPT	Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Switch with Wide Operating Temperature
IGS-504HPT	Industrial 5-Port Gigabit Switch w/ 4-Port 802.3at PoE+
IGS-624HPT	Industrial 4-Port 10/100/1000T 802.3at PoE+ w/ 2-Port 100/1000X SFP Ethernet Switch

WDAP-C7400