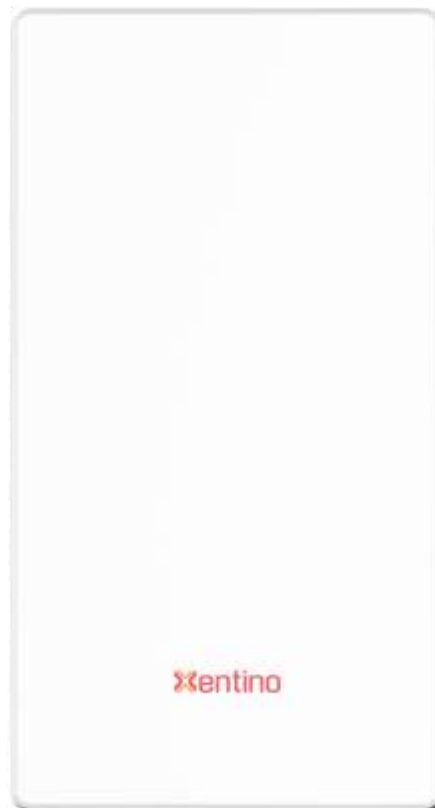## Product Overview

DT650 is an 11ax Wi-Fi standard Qualcomm Chipset wall mount Wireless Access Point with multiple ports and support MU-MIMO, Wave2.0, OFDMA and Seamless Roaming.

*Combined 1800Mbps Wi-Fi speed over 2 radios: 2.4GHz (600Mbps 11ax 2*2) + 5GHz (1200Mbps 2*2), equipped Gigabit WAN & LAN ports, support MU-MIMO and DL/UL-OFDMA modulation, faster Ethernet data rate and more users, then multiple users can upload or download multiple packets at same time, narrower subcarrier spacing and longer symbol time, improved the stability and data processing efficiency, publicly to be used in high density access environment such as university campus, concert venue, gymnasium, etc.*

Main Features

- Qualcomm 4-core enterprise CPU with more stable performance
- Wireless data rate up to 1.8Gbps. 802.11ax support 1024QAM, long OFDM symbol, 160M bandwidth and 11ax 2x2 MIMO technology, the wireless data rate up to 1.8Gbps, meet with demand of high-speed applications such as VR/ AR, 4K or 8K stream media.
- Multiple Ports for multiple applications. There are 1*GE WAN port, 4*GE LAN ports, 1*pass-through RJ45 port, 1* console port, 1*USB2.0 charger port, easy to connect with IPTV, PC, smart home device, fit for multiple applications.
- 1024-QAM Modulation Mode. 802.11ax adopt 1024-QAM modulation, which is more efficient than 802.11ac modulation, the throughput of single spatial traffic is increased by 25%.
- DL/ UL MU-MIMO. 802.11ax support both downlink MU-MIMO and uplink MU-MIMO. It can communicate with multiple end users at the same time, greatly improving the user's uplink transmission rate and the system's uplink and downlink capacity, improving the efficiency of multi-user concurrent scenarios, reducing the terminal application latency.

TWT (Target Wake-up Time). 802.11ax support TWT, allowing devices to negotiate when need to wake up, send and receive data. In additional, wireless AP can group the device into different TWT cycles, increase sleep time, reduce the device competing after wake-up, and save the device power.

Coverage Improvement. 802.11ax support long OFDM symbol transmission mechanism and 2MHz narrowband transmission, effectively reduced the packet loss rate and noise interference, improve the receive sensitivity and increase the WiFi coverage.

Improvement of Anti-Interference Ability. 802.11ax support BSS color bit and dynamic CCA-SD (Clear Channel Assessment Signal Detection) threshold and power adjustment, effectively alleviates the channel interference in multi-users scenarios, improve the utilization of spectrum resources.

Wall-Mount Design
Integrate a variety of
decoration styles

Hidden design of network ports, increase the aesthetics and avoids dust intrusion

SPECIFICATIONS

Chipset	IPQ6000 +QCA8075+QCN5022+QCN5052
Standard	802.11ax/ac/b/g/n
Flash	SPI NOR 8MB (1.8v) + NAND 128MB
DDR3L	512MB
2.4G Frequency	2.4GHz - 2.484GHz
2.4G Wi-Fi standard	802.11b/g/n/ax
5.8G Frequency	5150~5850MHz
5.8G Wi-Fi Standard	802.11 a/n/ac/ax
Interface	1 * 10/100 /1000 RJ45 WAN Port, active PoE
	4 * 10/100 /1000 RJ45 LAN Port
	1 to 1 pass-through RJ45 Port
	1 * Console Port
	1 * USB2.0 port for power charge
	1 * Reset button, press 10 seconds to revert to default setting
Antenna	Build in 2dBi 2.4G MIMO antenna Build in 3dBi 5.8G MIMO antenna
Data Rate	1800Mbps
End Users	150+
2.4G RF Power	≤ 20dBm
5.8G RF Power	≤ 19dBm
DC	12V----1.5A
PoE	48V (IEEE 802.3af)
LED light	Sys, 2.4G Wi-Fi, 5.8G Wi-Fi, WAN, LAN*4
Power Consumption	≤ 12W
Size	160mm*86mm*29mm
Working Environment	Working Temperature: -30°C to 45°C； Limited Temperature: -30°C to 55°C； Storage Temperature: -40°C to 70°C； Humidity：5%~95%（No condensation）

Multiple Application Scene

It is widely used in hotel, villa, house, KTV, hospital

Office Hotel Shopping mall School Hospital