Product Overview

C820 is an economic 11ax Wi-Fi standard Ceiling Wireless Access Point based on MTK platform for home, hotel applications.

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, Wave2.0 and seamless roaming. It provide high speed Ethernet data rate and allow more users access, then multiple users can upload or download multiple packets at same time.

The 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

- Comply with IEEE 802.11ax/ac/b/g/n, dual band, 1800Mbps Data Rate
- 1*10/100/1000Mbps WAN Port, 1*10/100/1000Mbps LAN Port to meet with different customer's request
- Support active IEEE 802.3af/at 48V PoE standard
- Comply with IEEE 802.3az standard, RF power adjustment and frequency analyzer for better application in different environment support Seamless Roaming, OFDMA,1024-QAM
- With MTK chipset, Flash : SPI NOR 16MB + NAND 256MB, greatly improved the data processing performance and allow more end users access

FIT/FAT Operation Mode

C820 supports FIT/FAT operation modes;

If **FIT AP**, work with AC controller, plug and play, central management by AC controller, mostly for enterprise application.

If **FAT AP**, support AP, repeater, gateway, WISP operation mode, can be configured by GUI, suit for home mostly.

Multiple Protection for Stable Performance

C820 with ABS fireproof material, white color, suite for various decoration styles. Besides that, PCB board with watchdog design, can reboot automatically in case of failure. What's more, it support lightning protection and ESD protection, can install in various harsh environment.

Power over Ethernet

C820 has integrated IEEE802.3af/at Power over Ethernet (PoE), for easy installation and lower cost. So it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing

Specifications

Hardware:	
Chipset	MT7621A+MT7905N+MT7975DN
Standard	802.11ax/ac/b/g/n
Flash	SPI NOR 16MB
Memory	256MB
2.4G Frequency	2.4GHz - 2.484GHz
2.4G Wi-Fi standard	802.11b/g/n/ac/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
	1 * 10/100 /1000 RJ45 LAN Port
	1 * Reset button, press 10 seconds to revert to default setting
	USB3.0 and Bluetooth are optional if need.
Antenna	Build in 4dBi MIMO Antenna
Data Rate	1800Mbps
End Users	120+
RF Power	≤ 18dBm
DC	12V----1.5A
PoE	48V (IEEE 802.3af/at)
LED light	Sys and WiFi, WAN, LAN
Power Consumption	≤ 15W
Size	168mmX168mmX32mm
Weight	
Others	
Package Contents	1800Mbps Dual Band wireless access point Ethernet Cable Installation Accessory
Environment	Operating Temperature: -20~45 ℃ Limit working temperature: -30~70 ℃ Storage Temperature: -40~70 ℃ Humidity: 5%~95% non-condensing

Antenna Specifications

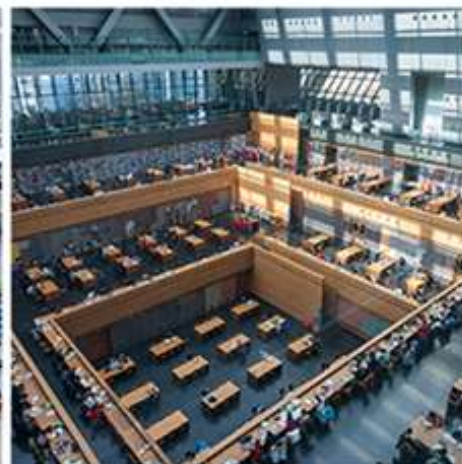| Item	Specifications	
Antenna	Frequency Range	2.4GHz&5.8 GHz
	Gain	4dBi
	V.S.W.R	≤1.9
	Impendance	50Ω
	Polarization	Vertical
	Radiation	Omni

Airport Terminal

Station waiting hall

Large library

Large scale conference

Market

Hospital