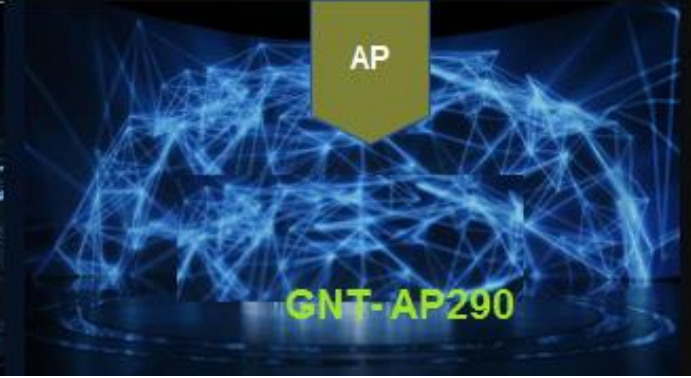




iTOONER

Wireless  
Access Point



## 11ac 1200Mbps Wave2 Ceiling Wireless AP

Model: GNT-AP290



### Description:

GNT-AP290 is an 11ac Wi-Fi standard Qualcomm Chipset high power industrial Ceiling Wireless Access Point support Wave2 , combined 1200Mbps Wi-Fi speed over 2.4GHz(300Mbps) and 5GHz(900Mbps), equipped Gigabit WAN & LAN port, fast Ethernet data rate make more than 100 end users can access into GNT-AP290 with faster Ethernet, make them to enjoy seamless HD movies, streaming, online gaming, wireless security and other bandwidth-intensive tasks, widely be used in school, hospital, hotel, office, shipping mall...

### High Power for more range and stable signal

Designed in two line Power Amplifier on PCB board, the power can be 1000mW high power, 5dBi MIMO high gain antenna, together with Ceiling mount, greatly increase the wireless range and supply the stable Wi-Fi signal for users.

### Wave 2 Technology

With Wave 2 Technology, it adopt 256QAM modulation, support MU-MIMO (Multi-User Multiple-Input Multiple-Output), 4 Spatial Streams, greatly to improved the communication efficiency.

### Power over Ethernet

GNT-AP290 has integrated IEEE802.3at 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 network infrastructure.

### Main Features:

- Comply with IEEE 802.11ac/b/g/n, dual band, 1200Mbps Data Rate
- 1 10/100/1000Mbps WAN Port, 1 10/100/1000Mbps LAN Port, faster Ethernet.
- 1000mW high power, build in 5dBi MIMO antenna, stronger signal strength, more wireless coverage, 16M Flash, 128M DDR2 RAM, more user, more stable
- Support active IEEE 802.3at 48V PoE standard
- Support SSID broadcasting, Multi SSID up to 8 (4 SSID in 2.4GHz, 4 SSID in 5GHz)
- Support Gateway (PPPOE, static IP, dynamic IP) , Wireless AP, Repeater, WISP operation mode
- With function of build in firewall, IP filter, URL filter and MAC filter
- Comply with IEEE 802.3az standard, RF power adjustment and frequency analyzer for better application in different environment
- Support DDNS, VPN pass through, Port forwarding and DMZ host
- Support 64/128-bit WEP security, EAP, 128bit WPA (TKIP/AES) security

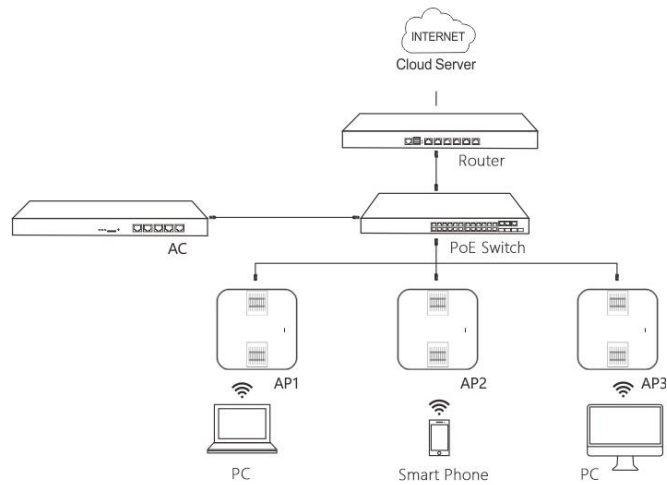
### Product Spec.:

Hardware:	
Chipset	Qualcomm QCA9563 + QCA9886 +QCA8334
Standard	802.11ac/b/g/n, MIMO technology
Memory	128MB DDR2 RAM
Flash	16MB
Interface	1 * 10/100 /1000Mbps RJ45 WAN Port
	1 * 10/100 / 1000Mbps RJ45 LAN Port
	1 * Reset button, press 15 seconds to revert to default setting
Antenna	Build in 5dBi MIMO Antenna
Power consumption	48V PoE<30W
Size	198mm X 28mm
Weight	
RF Data	
Frequency	2.4G:802.11b/g/n: 2.4GHz - 2.484GHz,
	5GHz:802.11a/n/ac: 5.150GHz~5.850GHz
Country code	FCC、IC、ETSI、MCK、MCK1、MCK2、MCK3、NCC、RUSSIAN、CN
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM, 128-QAM, 256-QAM

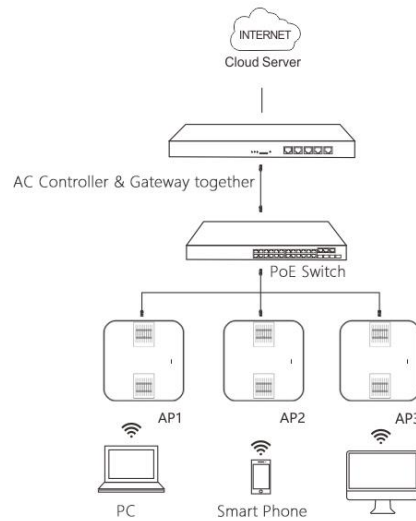
	DSSS = DBPSK, DQPSK, CCK				
Throughput	1200Mbps				
2.4G RF Power	802.11b	11M	17±2dBm	1M	18±2dBm
	802.11g	54M	16±2dBm	6M	18±2dBm
	802.11n HT20	MCS7	15±2dBm	MCS0	17±2dBm
	802.11n HT40	MCS7	14±2dBm	MCS0	16±2dBm
5G RF Power	802.11a	54M	23±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	22±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	21±2dBm	MCS0	24±2dBm
	802.11ac HT80	MCS9	20±2dBm	MCS0	23±2dBm
2.4G Receive Sensitivity	802.11b	11M	-75dBm	1M	-84dBm
	802.11g	54M	-62dBm	6M	-80dBm
	802.11n HT20	MCS7	-60dBm	MCS0	-78dBm
	802.11n HT40	MCS7	-58dBm	MCS0	-76dBm
5G Receive Sensitivity	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0 .	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0 .	-86dBm
	802.11ac HT80	MCS9	-58dBm	MCS0 .	-85dBm
EVM	2.4G: 802.11b: ≤-9 dB; 802.11g: ≤-18 dB; 802.11n: ≤-17 dB 5G: 802.11a: ≤-25dB; 802.11n: ≤-28 dB; 802.11ac: ≤-32 dB				
PPM	±20ppm				
Max Users	128+				
<b>Firmware Features:</b>					
Operation mode	Wireless AP, Gateway, WISP, WiFi Repeater				
WAN Type	Dynamic IP/Static IP/PPPoE/L2TP(Dual Access) /PPTP(Dual Access)				
Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption				
SSID	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)				
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding				
Protocols	IPv4				
<b>Others:</b>					
Package Contents	1200Mbps Dual Band wireless access point Ethernet Cable Quick Installation Guide				

	Setting Accessory
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
Environment	Operating Temperature: -30~55 °C Storage Temperature: -40~70 °C Humidity: 5%~95% non-condensing
Management	Firmware GUI , Remote Management, WLAN Controller, Cloud Management System

### Working Diagram



Connection Diagram 1



Connection Diagram 2