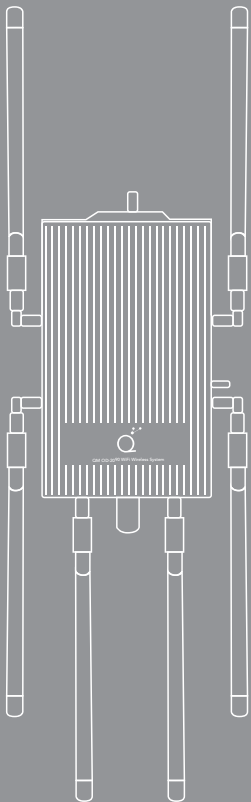


### Technical Specs

AI Driven High  
Performance  
WiFi Wireless System  
802.11ac  
Wave2 Standard

Wi-Fi 

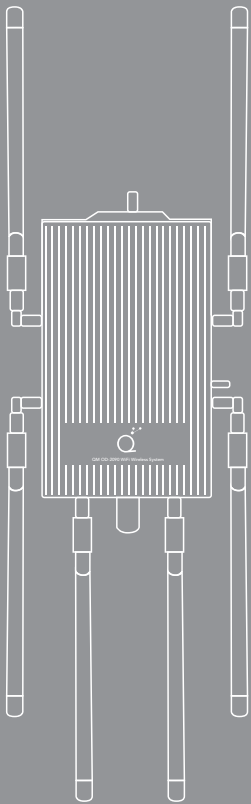


<b>CPU</b>	Mediatek MT7621A Mediatek MT621A is a SoC solution with a powerful 880 MHz dual-core processor with hardware support in solutions for Network Address Translation (NAT), Quality of Service (QoS), SAMBA, Virtual Private Network (VPN), and other routing and tunneling applications ideal for 802.11ac, LTE cat4/5, smart routers, edge, access point, VPN, NAS and AC routers (access point controller)																		
<b>WiFi module</b>	Mediatek MT7615N+MT7615D Mediatek MT7615N: is a highly integrated Wi-Fi single chip which supports 1733 Mbps PHY rate, complies with IEEE 802.11ac (Wave2) standards increasing spectrum efficiency. Mediatek MT7615D : is an integrated Wi-Fi chip that supports a PHY rate of 1267 Mbps fully complies with IEEE 802.11ac Wave2 and IEEE. It can support concurrent dual-band operation at 5GHz (1267Mbps) and 2.4GHz (400Mbps) band.																		
<b>Memory (RAM, ROM)</b>	RAM: 1 GB ROM: 2 GB																		
<b>Operative system</b>	OpenWRT Ver 18.06 owned Coovachilli included																		
<b>Management</b>	Remote management and control through a proprietary QUANTUM platform, which also provides a Captive Portal																		
<b>Antenna type</b>	Six high-performance external antennas (For outdoor point-to-point transmission, replace them with directional antennas.)																		
<b>Antenna gain</b>	2.4 GHz: 6 dBi 5 GHz - 1(band1/band2): 8dBi 5 GHz - 2(band3/band4): 8dBi																		
<b>Operating frequency bands</b>	802.11ac/n/a: 5.725 GHz - 5.850 GHz; 5.15 GHz - 5.35GHz 802.11b/g/n: 2.412 ~ 2.462 GHz																		
<b>Wi-Fi data rate</b>	2.4 GHz: 2.4GHz: MU-MIMO 2*2 11n 400Mbps 5.1 GHz - 1: MU-MIMO 2x2, 802.11ac, 867 Mbps 5.8 GHz - 2: MU-MIMO 4x4, 802.11ac, 1733 Mbps																		
<b>Wi-Fi power</b>	2.4 GHz: 21.5 dBm @ MCS7/BW20 (EVM-30dB) 5GHz - 1(band1/band2): MU-MIMO 2*2 11ac 867Mbps 5GHz - 2(band3/band4): MU-MIMO 4*4 11ac 1733Mbps																		
<b>Maximum total transmitting power</b>	2.4 GHz: 23 dBm (combined power) 5GHz - 1(band1/band2): 23 dBm (combined power) 5GHz - 2(band3/band4): 23 dBm (combined power) The actual transmission power is subject to relevant regulations.																		
<b>Modulation technology</b>	OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, CCK @ 5.5/11 Mbps MU-MIMO-OFDM (802.11n): MCS 0-15 MU-MIMO-OFDM (802.11ac): MCS 0-9																		
<b>Modulation mode</b>	802.11B: DSS: CCK @ 5.5/11 Mbps, DQPSK @ 2 Mbps, DBPSK @ 1 Mbps 802.11a/g: OFDM: 64QAM @ 48/54 Mbps, 16QAM @ 24 Mbps, QPSK @ 12/18 Mbps, BPSK @ 6/9 Mbps 802.11n: MU- MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM 802.11ac: MU-MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM																		
<b>802.11Ac compliance</b>	<table border="0"> <tr> <td><b>Operating frequency bands</b></td> <td>5 GHz</td> </tr> <tr> <td><b>A-MPDU</b></td> <td>Supported</td> </tr> <tr> <td><b>A-MSDU</b></td> <td>Supported</td> </tr> <tr> <td><b>TxBF</b></td> <td>Supported</td> </tr> <tr> <td><b>MLD</b></td> <td>Supported</td> </tr> <tr> <td><b>MRC</b></td> <td>Supported</td> </tr> <tr> <td><b>STBC</b></td> <td>Supported</td> </tr> <tr> <td><b>LDPC</b></td> <td>Supported</td> </tr> <tr> <td><b>MU-MIMO</b></td> <td>Supported</td> </tr> </table>	<b>Operating frequency bands</b>	5 GHz	<b>A-MPDU</b>	Supported	<b>A-MSDU</b>	Supported	<b>TxBF</b>	Supported	<b>MLD</b>	Supported	<b>MRC</b>	Supported	<b>STBC</b>	Supported	<b>LDPC</b>	Supported	<b>MU-MIMO</b>	Supported
<b>Operating frequency bands</b>	5 GHz																		
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**802.11n  
compliance**

<b>Operating frequency bands</b>	2.4 GHz + 5 GHz
<b>A-MPDU</b>	Supported
<b>MLD</b>	Supported
<b>TxBF</b>	Supported
<b>MRC</b>	Supported
<b>STBC</b>	Supported
<b>LDPC</b>	Supported

**WLAN**

<b>Maximum number of users per AP</b>	256
*It depends of the maximum bandwidth (Premium Quality)	
<b>Maximum number of users per WiFi band</b>	128
*WiFi - 2.4Hz & 5GHz	
<b>Virtual AP</b>	4
<b>WPAPSK/WPA2PSK mode</b>	Supported
<b>RTS/CTS</b>	Supported
<b>Guest network</b>	Supported
<b>Smart device SSID</b>	Supported
<b>Wired networking</b>	Automatic detection and authorization
<b>Wireless Mesh Network</b>	Automatic detection and authorization
<b>Automatic path switching</b>	Supported
<b>Automatic link fault detection and recovery</b>	Supported

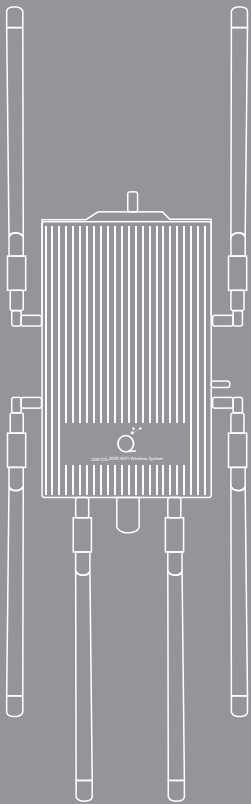
**Advanced  
networking  
features**

<b>Automatic network-wide channel adjustment</b>	Supported
<b>Automatic network-wide bandwidth adjustment</b>	Supported
<b>Automatic network-wide power adjustment</b>	Supported
<b>Automatic network management</b>	Automatic networking with distributed APs, which allows you to add or replace APs as needed

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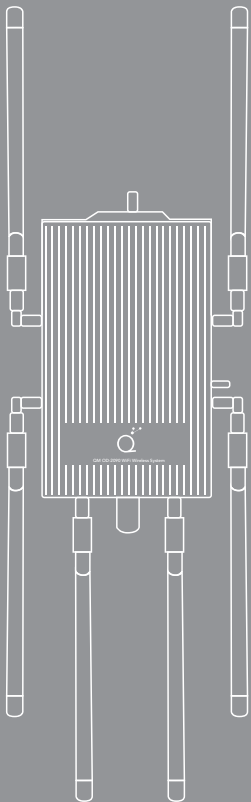


<b>Security policy</b>	<b>Encryption</b>	AES	
	<b>802.11i</b>	Supported	
	<b>Authentication</b>	PSK	
	<b>Client isolation</b>	1. Layer-2 wireless client isolation 2. SSID isolation	
	<b>Forwarding security</b>	Packet filter, MAC address filter, and broadcast storm suppression	
	<b>SSID-VLAN binding</b>	Supported	
	<b>Management Frame Protection (802.11w)</b>	Supported	
	<b>Layer-2 and layer-3 functions</b>	<b>IP address configuration</b>	Static IP address, DHCP, and PPPoE
		<b>Local forwarding</b>	Based on SSID and VLAN
		<b>Multicast</b>	IGMP Snooping
<b>Advanced Wi-Fi features</b>	<b>802.11e</b>	WMM	
	<b>Priority</b>	Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities	
	<b>Ai QoS</b>	Mapping based on application traffic and air interface queue	
	<b>ATF</b>	ATF based on clients and SSIDs ATF for the guest network	
	<b>Automatic channel/bandwidth power selection</b>	Supported	
	<b>Load balancing</b>	Based on number of users / bands / air interface load	
	<b>802.11k/802.11v/802.11r</b>	Supported	
	<b>AP Steering</b>	Supported	
	<b>Band Steering</b>	Supported	
	<b>Packet-by-packet power control</b>	Supported	
<b>Multicast enhancement</b>	Multicast-to-unicast (IPv4)		
<b>Inter-node Beamforming+</b>	Supported		

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<b>Ethernet port</b>	10/100/1000 Mbps Base-TX port x 1 (optional 2 ports depending on customer requirements)
<b>Bluetooth</b>	Support BLE5.0
<b>Local Power Supply</b>	48V 0.5A DC
<b>PoE power supply</b>	Compliant with 802.3at
<b>Power adjustment</b>	Automatic
<b>Maximum total power</b>	< 24W
<b>Reset</b>	Supported by hardware and software
<b>Operating temperature / Storage temperature</b>	-40°C~65°C / -40°C~70°C
<b>Operating humidity</b>	0%~100% (non-condensing)
<b>Weight</b>	5.70 kg
<b>Mounting method</b>	Pole
<b>Dimensions (excluding accessories)</b>	343mm*210mm*98mm
<b>Insulation</b>	IP67
<b>Altitude</b>	-60 m~5000 m
<b>Operating air pressure</b>	53 kPa~106 kPa
<b>Maximum total power</b>	< 24W
<b>EMC</b>	GB9254, EN301 489, EN55022, FCC Part 15, RSS-210
<b>Certification</b>	NOM, IFT, RoHS, WiFi Alliance, REACH per formal requested
<b>MTBF</b>	> 250000 hours

#### KEY SELLING POINTS

- Distributed structure with cloud AC
- Technologies for excellent concurrent wireless access
  - OFDM
  - Intelligent load balancing
  - AI-QoS
  - Optimal band selection
  - ATF
  - Packet-by-packet power control
- Technologies for high-speed wireless throughput
  - Shortcut technology
  - Connection acceleration technology
  - Optimal route technology
- Technologies for seamless roaming
  - 801.11k/v/r technology
  - Steering of roaming technology
- Agile deployment
  - Seamless migration
  - Seamless network expansion
  - Site survey-free
  - Cabling-free

- Installation, management, and maintenance:

- Wizard-guided installation with Bluetooth and app
- Local management with app / Remote management
- Cloud AC Engine
- Local AC management
- Remote maintenance
- AP locating

- Capacity of 200\* concurrent wireless VIDEO clients depending on available bandwidth at the moment

\*Value obtained with broadcasting VIDEO at 720p

- Coverage up to 20,000 square meters & 300m linear distance