

Technical Specs

AI Driven High
Performance
WiFi Wireless System
802.11ac
Wave2 Standard

Wi-Fi 

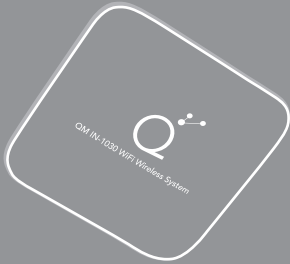


CPU	Mediatek MT7621A Mediatek MT7621A is a SoC solution with a powerful 880 MHz dual-core processor with hardware support in solutions for Network Address Translation (NAT), Quality of Service (QoS), SAMBA, Virtual Private Network (VPN), and other routing and tunneling applications ideal for 802.11ac, LTE cat4/5, smart routers, edge, access point, VPN, NAS and AC routers (access point controller)	
WiFi module	Mediatek MT7615D 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 supports concurrent dual-band operation at 5GHz and 2.4GHz band.	
Memory (RAM, ROM)	RAM: 1 GB ROM: 2 GB	
Antenna type	Two high-performance internal array antennas	
Antenna gain	4GHz : 4dBi 5GHz : 4dBi	
Operating frequency bands	802.11ac/n/a: 5.725 GHz - 5.850 GHz; 5.15 GHz - 5.35GHz 802.11b/g/n: 2.412 ~ 2.462 GHz	
Wi-Fi data rate	2.4G: MU-MIMO 2*2 11n 400Mbps 5.1G: MU-MIMO 2*2 11ac 867Mbps	
Wi-Fi power	4GHz : 21.5dBm@MCS7/BW20(EVM-30dB) 5GHz : 21.5dBm@MCS9/BW80(EVM-32dB)	
Maximum total transmitting power	2.4GHz: 23 dBm (combined power) 5GHz: 23 dBm (combined power) The actual transmission power is subject to relevant regulations.	
Modulation technology	OFDM : BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS : DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MU-MIMO-OFDM (11n): MCS 0-15 MU-MIMO-OFDM (11ac): MCS 0-9	
Modulation mode	11b : DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps 11a/g : OFDM:64QAM@48/54Mbps,16QAM@24Mbps,QPSK@12/18Mbps, BPSK@6/9Mbps 11n : MU- MIMO-OFDM:BPSK,QPSK,16QAM,64QAM 11ac : MU- MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM	
802.11Ac compliance	Operating frequency bands	5 GHz
	A-MPDU	Supported
	A-MSDU	Supported
	TxBF	Supported
	MLD	Supported
	MRC	Supported
	STBC	Supported
	LDPC	Supported
	MU-MIMO	Supported

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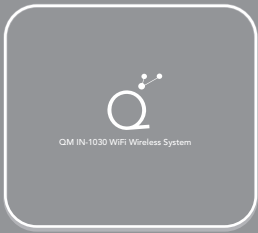


802.11n compliance	Operating frequency bands	2.4 GHz + 5 GHz	
	A-MPDU	Supported	
	MLD	Supported	
	TxBF	Supported	
	MRC	Supported	
	STBC	Supported	
	LDPC	Supported	
	WLAN	Maximum number of users per AP	256
		*It depends of the maximum bandwidth (Premium Quality)	
		Maximum number of users per WiFi band	128
*WiFi - 2.4Hz & 5GHz			
Virtual AP		4	
WPAPSK/WPA2PSK mode		Supported	
RTS/CTS		Supported	
Guest network		Supported	
Smart device SSID		Supported	
Wired networking		Automatic detection and authorization	
Wireless Mesh Network		Automatic detection and authorization	
Automatic path switching		Supported	
Automatic link fault detection and recovery		Supported	
Advanced Networking features	Automatic network-wide channel adjustment	Supported	
	Automatic network-wide bandwidth adjustment	Supported	
	Automatic network-wide power adjustment	Supported	
	Automatic network management	Automatic networking with distributed APs, which allows you to add or replace APs as needed	

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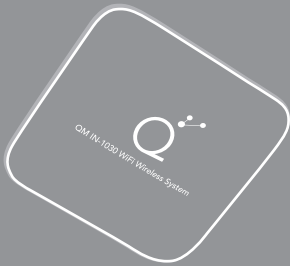


Security policy	Encryption	AES
	802.11i	Supported
	Authentication	PSK
	Client isolation	1. Layer-2 wireless client isolation 2. SSID isolation
	Forwarding security	Packet filter, MAC address filter, and broadcast storm suppression
	SSID-VLAN binding	Supported
Layer-2 and layer-3 functions	Management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

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Ethernet port	10/100/1000 Mbps Base-TX port x 2
Bluetooth	Support BLE5.0
Local Power Supply	Support 48V 0.5A DC
PoE power supply	Compliant with 802.3at/af
Power adjustment	Automatic
Maximum total power	<24W
Reset	Supported
Operating temperature / Storage temperature	-10°C~40°C/-40°C~70°C
Operating humidity / Storage humidity	5%~95% (non-condensing)
Weight	700g
Mounting method	Ceiling
Size (Without Attachments)	200 mm x 200 mm x 50 mm
Insulation	IP41
EMC	GB9254、EN301 489、EN55022、FCC Part 15、RSS-210
Certification	FCC/CE/CCC/RoHS
MTBF	>250000H
Status LED	Solid on / Blinking/ Network error (The LED can be turned off using software.)

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 100* concurrent wireless VIDEO clients depending on available bandwidth at the moment
- *Value obtained with broadcasting VIDEO at 720p
- Coverage up to 500 square meters & 115m linear distance