Quamtum Connectivity de México, S.A. de C.V.

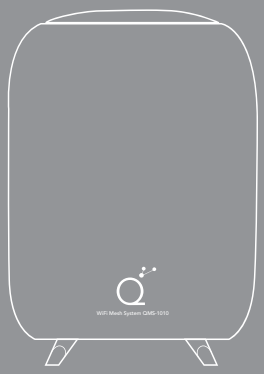
QMS-1010

High Perfomance WiFi Mesh System

Technical Specs

AI Driven High Performance MESH System 802.11ac Wave2 Standard

Wi-Fi



Hardware Specifications

CPU	Mediatek MT7621A+MT7615D
WiFi Chipset	Mediatek MT7621A: is a SoC solution with a powerful 880 MHz dual-core processor. Mediatek MT7615D: is a highly integrated Wi-Fi single chip which supports 1733 Mbps PHY rate, complies with IEEE 802.11ac (Wave2) standards increasing spectrum efficiency.
Memory (RAM, ROM)	RAM: 1 GB ROM: 2 GB
Antenna type	Two high-performance internal array antennas
Antenna gain	2.4G：4dBi 5G-1：4dBi
Operating frequency bands	802.11ac/n/a : 5.725GHz-5.850GHz ; 5.15~5.35GHz 802.11b/g/n : 2.4GHz-2.483GHz
Wi-Fi data rate	2.4G: MU-MIMO 2*2 11n 400Mbps 5.1G: MU-MIMO 2*2 11ac 867Mbps
Wi-Fi power	2.4G：21.5dBm@MCS7/BW20(EVM-30dB) 5G band1: 21.5dBm@MCS9/BW80(EVM-32dB)
Maximum total transmitting power	2.4 GHz: 23 dBm (combined power) 5 GHz - 1: 23 dBm (combined power) 5 GHz - 2: 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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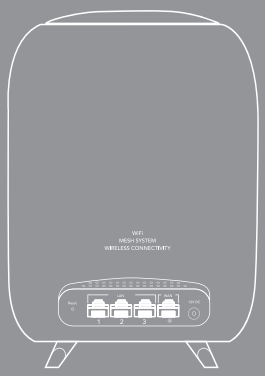

802.11n compliance	Operating frequency bands	2.4 GHz + 5 GHz
	A-MPDU	Supported
	MLD	Supported
	TxBF	Supported
	MRC	Supported
	STBC	Supported
	LDPC	Supported
WLAN	**Maximum number of users per AP**	256
	*It depends of the maximum bandwidth (Premium Quality)	
	Maximum number of users per WiFi band	128
	*WiFi - 2.4Hz & 5GHz	
	Virtual AP	4
	WPA-PSK/WPA2-PSK mode	Supported
	RTS/CTS	Supported
	Guest network	Supported
	Smart device SSID	Supported
	Wired networking	Automatic detection and authorization
	Wireless Mesh networking	Automatic detection and authorization
Advanced Networking Features	Automatic path switching	Supported
	Automatic link fault detection and recovery	Supported
	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
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
	Management frame protection (802.11w)	Supported
Layer-2 and layer-3 functions	IP address configuration	Static IP address, DHCP, and PPPoE
	Local forwarding	Based on SSID and VLAN
	Multicast	IGMP snooping

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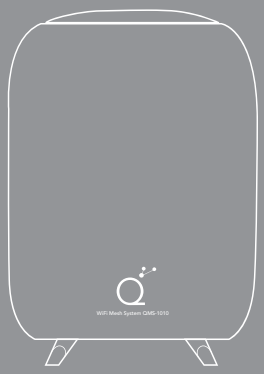

Advanced Wi-Fi Features	802.11e	WMM
	Priority	Ethernet port 802.1P identification and marking
	AI-QoS	Mapping from wireless priorities to wired priorities
		Mapping based on application traffic and air interface queue
	ATF	ATF based on clients and SSIDs ATF for the guest network
	Automatic channel/bandwidth/power selection	Supported
	Load balancing	Based on traffic / number of users / bands /air interface load
	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

Ethernet Port	10/100/1000 Mbps Base-TX port x 4
Bluetooth	Support BLE5.0
USB port	Not Support
Local Power Supply	Support 12V 1.5A DC
Power adjustment	Automatic
Maximum total power	<15W
Reset	Supported
Operating temperature / Storage temperature	-10°C～40°C/-40°C～70°C
Operating humidity / Storage humidity	5%～95% (non-condensing)
Weight	550g
Mounting method	Desktop/Wall
Size (excluding accessories)	143mm x 65mm x 191mm
EMC	GB9254、EN301 489、EN55022、FCC Part 15、RSS-210
Certification	FCC/CE/CCC/RoHS
MTBF	>250000H
Status LED	Solid on / Breathing / Network error (The LED can be turned off using software.)

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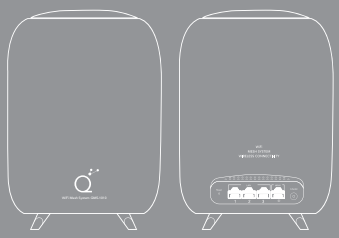

KEY SELLING POINTS

- 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