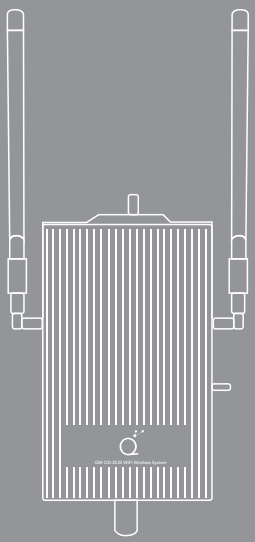
Quamtum Connectivity

QM ODS-2030
Outdoor WiFi Wireless System

Technical Specs

AI Driven High Performance WiFi Wireless System 802.11ac Wave2 Standard

Wi-Fi



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CPU	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)
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 (1267Mbps) and 2.4GHz (400Mbps) band.
Memory (RAM, ROM)	RAM：1 GB ROM: 2 GB
Antenna type	Two high-performance external antennas (For outdoor point-to-point transmission, replace them with directional antennas.)
Antenna gain	2.4 GHz: 6dBi 5 GHz: 8 dBi
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	2.4 GHz: MU-MIMO 2x2, 802.11n, 400 Mbps 5 GHz: MU-MIMO 2x2, 802.11ac, 867 Mbps
Wi-Fi power	2.4 GHz: 21.5 dBm @ MCS7/BW20 (EVM-30dB) 5 GHz: 21.5 dBm @ MCS9/BW80 (EVM-33.5dB)
Maximum total transmitting power	2.4 GHz: 23 dBm (combined power) 5 GHz: 23 dBm (combined power) The actual transmission power is subject to relevant regulations.
Modulation technology	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
Modulation mode	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

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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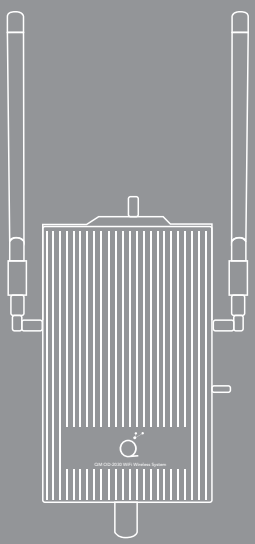

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802.11n compliance	**Operating frequency bands**	2.4 GHz + 5 GHz
	A-MPDU	Supported
	MLD	Supported
	TxBF	Supported
	MRC	Supported
	STBC	Supported
	LDPC	Supported
WLAN	**Maximum number of users per AP**	256
	*It depends of the maximum bandwidth (Premium 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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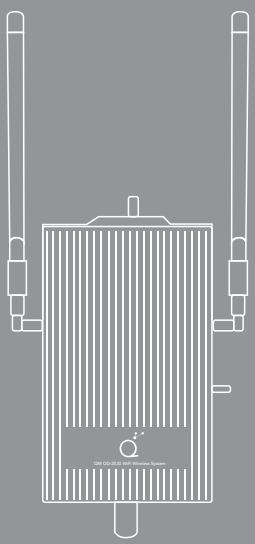

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Security policy	**Encryption**	AES
	802.11i	Supported
	Authentication	PSK
	Client isolation	1. Layer-2 wireless client isolation 2. SSID isolation
	Forwarding security	Packet filter, MAC address filter, and broadcast storm suppression
	SSID-VLAN binding	Supported
	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
Advanced Wi-Fi features	**802.11e**	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 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

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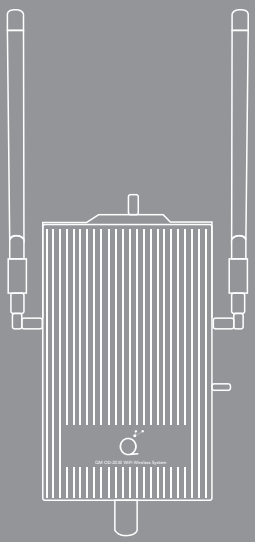

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Ethernet port	10/100/1000 Mbps Base-TX port x 1
Bluetooth	Support BLE5.0
Local Power Supply	48V 0.5A DC
PoE power supply	Compliant with 802.3at
Power adjustment	Automatic
Maximum total power	< 16W
Reset	Supported by hardware and software
Operating temperature / Storage temperature	-40°C～65°C / -40°C～70°C
Operating humidity	0%～100% (non-condensing)
Weight	5.12 kg
Mounting method	Pole
Dimensions (excluding accessories)	343mm*210mm*98mm
Insulation	IP67
Altitude	-60 m～5000 m
Operating air pressure	53 kPa～106 kPa
EMC	GB9254, EN301 489, EN55022, FCC Part 15, RSS-210
Certification	FCC/CE/CCC/SRRC/RoHS
MTBF	> 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 100* 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

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