INDOOR ACCESS POINT
QQ-IW-235

Up to 3 Gbps
Data Rate

1 GbE
Connectivity

2.4 GHz - 2x2,
5 GHz - 2x2

MU-MIMO
With OFDMA

2 Years
Warranty

PRODUCT OVERVIEW

Introducing the QQ-IW-235 dual-band Wi-Fi 6 Access Point from Quantum Networks, engineered to elevate your connectivity to new heights. Featuring cutting-edge Wi-Fi 6 technology, this Access Point delivers lightning-fast speeds of up to 3 Gbps, perfect for both educational and business needs. Tailored for small to medium-sized residences, it guarantees seamless performance and reliability.

Enter the Quantum era with the QQ-IW-235 Access Point, accommodating both modern and legacy Wi-Fi devices. Experience the convenience of easy wall mount and seamless monitoring via the user-friendly Rudder Compass cloud controller. With WPA3 security, it offers robust cyber threat protection for all connected devices while streamlining online time management across your network, promoting healthier digital habits. Quantum Networks' QQ-IW-235 marks a significant advancement in connectivity.

KEY FEATURES

Exceptional Wi-Fi performance
Utilizing cutting-edge Wi-Fi 6 (802.11ax) technology for performance enhancement and interference mitigation, it provides extended coverage and an unmatched user experience.

ISP Compatibility
Works seamlessly with most ISPs flexible connections like PPPoE, DHCP, Static etc.

Wi-Fi 6 Advancements
Faster speeds reduced lag and increased capacity with Wi-Fi 6 technology.

Ultra-Fast Smart Roaming
Rapid roaming within the 5 GHz band for uninterrupted connectivity.

Enhanced Security
Latest WPA3 security protocol for improved protection against cyber security threats.

Easy, User-Friendly Setup
Quick setup in minutes.

Two years warranty
Two years limited liability manufacturer's warranty from the date of activation of the device.

Wi-Fi		
Wi-Fi Standards	5 GHz	IEEE 802.11a/n/ac/ax
	2.4 GHz	IEEE 802.11b/g/n/ax
Operating Mode	Access point, Router	
Networking Mode	IPv4, Gateway mode (NAT), Bridge mode	
Maximum Data Rates	5 GHz	802.11ax@ 160 MHz: 2402 Mbps
		802.11ax@ 80 MHz: 2402 Mbps
		802.11ax@ 40 MHz: 1147.1 Mbps
		802.11ax@ 20 MHz: 573.5 Mbps
		802.11ac@ 80 MHz: 2166.7 Mbps
		802.11ac@ 40 MHz: 1000 Mbps
		802.11ac@ 20 MHz: 481.8 Mbps
	2.4 GHz	802.11ax@ 40 MHz: 573.5 Mbps
		802.11ax@ 20 MHz: 286.8 Mbps
		802.11n@ 40 MHz: 500 Mbps
		802.11a/g@ 20 MHz: 54 Mbps
		802.11b@ 20 MHz: 11 Mbps
Maximum Receiver Sensitivity	5 GHz	-98 dBm
	2.4 GHz	-93 dBm
Supported Channels	5 GHz	36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2e, UNII-3 compliant) (As per country regulations)
	2.4 GHz	1-13 (As per country regulations)
	Dynamic frequency selection (DFS) optimizes the use of available RF spectrum	
Channel Bands	5 GHz	5.15-5.25 GHz (U-NII-1), 5.25-5.35 GHz (U-NII-2A), 5.47-5.725 GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3)
	2.4 GHz	2.4-2.484GHz (ISM)
Modulation Schemes	802.11ax	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM
	802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
	802.11a/g/n	BPSK, QPSK, 16-QAM, 64-QAM
	802.11b	BPSK, QPSK, CCK
Radio Chains and Spatial Streams	2x2:2	Streams in 5GHz-OFDMA with MU-MIMO
	2x2:2	Streams in 2.4GHz- OFDMA with MU-MIMO
Channel Size	802.11n	20/40 (HT) MHz
	802.11ac	20/40/80/160 (VHT) MHz
	802.11ax	20/40/80/160 (HE) MHz
Wireless Security	WPA3-AES	
	WPA3-WPA2 Mixed- AES personal, Open	
	WPA2-TKIP/AES personal, Open	
	WPA2-Enterprise (802.1x/EAP-PEAP, EAP-TLS, EAP-TTLS)	
	WPA personal, WPA Mixed-Enterprise (802.1x/EAP-PEAP)	
	802.11i, 802.11 w MFP (Management Frame Protection)	
	Hide SSID in beacons	

Roaming	IEEE 802.11k (Assisted Roaming)	
	IEEE 802.11v (BSS Transition Management)	
	IEEE 802.11r (Fast BSS Transition (FT))	
Channel / Tx Power Management	Auto / Manual channel selection	
	ATP-Automatic Transmit Power management	
Client Management	Band steering	
Diagnostics	Ping, Traceroute, Nslookup, Internet speed, Host discovery, Port connectivity	
Access Control List	Bandwidth Restriction per SSID	
	L2 (MAC) filtering	
	MAX clients per radio	
Wi-Fi 6 Features	Target wake time	
	BSS colouring	
	Spatial reuse	
	Orthogonal frequency division multiple access (OFDMA)	
	Preamble puncturing	
Networking		
Ethernet WAN	WAN (DHCP/Static/PPPoE)	
DHCP Server	DHCP lease, DHCP MAC reservation	
NAT	Masquerade (SNAT), Port forwarding (DNAT)	
VLAN Support	802.1Q (1 per BSSID), Port-based (Tagged, untagged)	
Performance & Capacity		
Peak PHY Rates	5 GHz	2402 Mbps (802.11ax)
	2.4 GHz	573.5 Mbps (802.11ax)
Client Capacity	Up to 64 clients per access point	
SSID	Up to 8 per access point	
RF		
Maximum Aggregate Transmit Power (Adjusted as per country regulations)	5 GHz	21 dBm
	2.4 GHz	23 dBm
Antenna Type		Built-in integrated antenna for both radios
Antenna Gain (Max)	5 GHz	3 dBi
Antenna Gain (Max)	2.4 GHz	3 dBi
EIRP	5 GHz	24 dBm
	2.4 GHz	26 dBm

Power		
Rating	802.3 af PoE (Class 3) (Fully functional with all components)	
Physical Interfaces		
Ethernet	WAN: 1 x 10/100/1000 Base-T ethernet, Auto-MDIX, RJ-45 with 802.3af PoE	
	LAN: 1 x 10/100/1000 Base-T ethernet	
	802.3az Energy Efficient Ethernet (EEE)	
Buttons	Restart/Reset	
LED indicators	Quick Setup, Cloud / Standalone	
Management		
Device Management	Standalone, Local (web UI), SSH (CLI)	
	Quantum Compass	
Environmental		
Operating Temperature	–20°C (-4F) ~ +55°C (+131F)	
Humidity	5% ~ 100% non-condensing	
Standard	Plenum-rated (UL2043)	
Physical		
Dimensions	8.5 cm (L), 8.5 cm (W), 4.5 cm (H)	
Firmware Management		
Cloud-managed firmware update*		
Firmware upgrade via Access Point local GUI		
Certification and Compliances		
Certifications	**Parameter**	**Standards**
Regulatory (IN)	IPv6 Ready	
	ETA (WPC)	NABL 2.4, NABL 5
	MTCTE (ER)	EMI/EMC (IEC / EN-61000* & CISPR 32), Safety (IS-13252 & IEC-60950), Radio, Technical (IPv4 & IPv6)

ORDERING INFORMATION

Part Code	Description
QQ-IW-235	Quantum QQ-IW-235 dual-band 802.11ax indoor wireless wall mount access point, 2 x 2:2 streams, 2 x 1G Base-T Ethernet port, 802.3af PoE support. Comes with a two-year limited liability manufacturer's warranty for the access point.

* QQ-IW-235 Access Point functions as a standalone access point. To manage it with Quantum Compass, a separate license for Rudder Lite must be acquired.