QUANTUM® NETWORKS

QQ-IW-235

It guarantees seamless performance and reliability.

Perfect for educational and business use, optimized for small to medium-sized spaces.

PRODUCT OVERVIEW

Introducing the QQ-IW-235 dual-band Wi-Fi 6 Access Point from Quantum Networks, designed to elevate your connectivity. With speeds up to 3 Gbps, it's ideal for educational and business needs. Perfect for small to medium-sized residences, it ensures seamless performance.

Enter the Quantum era with the QQ-IW-235, supporting both modern and legacy devices. Enjoy easy wall mounting and simple monitoring via Quantum Compass. With WPA3 security, it protects against cyber threats while promoting healthier digital habits. The QQ-IW-235 is a significant leap in connectivity from Quantum Networks.

Up to 3 Gbps Data Rate

1 GbE Connectivity

2.4 GHz - 2x2, 5 GHz - 2x2

MU-MIMO With OFDMA

HIGHLIGHTS

Exceptional Wi-Fi Performance

Theft Prevention Functionality

Advanced Wi-Fi 6 Features

2 Years Warranty

TECHNICAL SPECIFICATIONS

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		
Networking Mode	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		
	WPA personal		

	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)
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 /at PoE+(Class 4) (Fully functional with all components)
Physical Interfaces	
Ethernet	WAN: 1 x 10/100/1000 Base-T ethernet, Auto-MDIX, RJ-45 with 802.3at 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	

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, 2x1G Base-T Ethernet port, 802.3af/at PoE support. Comes with a two-year limited liability manufacturer's warranty for the access point.