QQ-R-7000

State-of-the-art Wi-Fi 6 technology for expanded coverage and outstanding performance in high-demand environments.
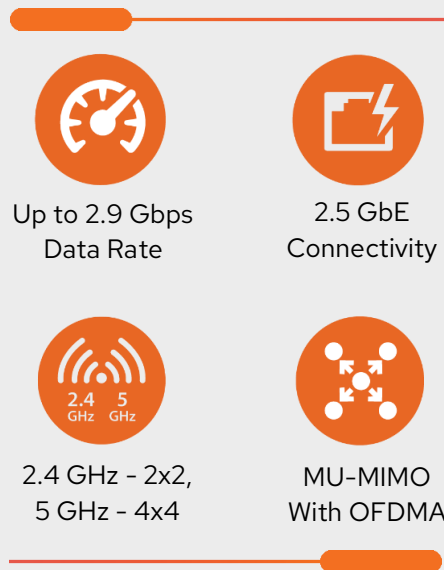
Ideal for resorts, hotels, tech ventures, and Professional environments.

PRODUCT OVERVIEW

The QQ-R-7000 dual-band, dual-concurrent Access Point offers six spatial streams (4x4:4 in 5GHz, 2x2:2 in 2.4GHz) and peak data rates up to 2.9 Gbps.

Equipped with state-of-the-art Wi-Fi 6 (802.11ax) technology, it meets the rising demand for Wi-Fi by ensuring efficient high-speed connectivity, exceptional coverage, and seamless performance in dense environments.

Supporting key Wi-Fi 6 features such as OFDMA, Target Wake Time, BSS Coloring, and spatial reuse, the QQ-R-7000 reduces interference and expands coverage with directional antennas. Ideal for advanced guest Wi-Fi networks, it features integrated BLE Beacons, USB for next-generation customer service hotspots.

Up to 2.9 Gbps Data Rate

2.5 GbE Connectivity

2.4 GHz - 2x2, 5 GHz - 4x4

MU-MIMO With OFDMA

HIGHLIGHTS

Exceptional Wi-Fi Performance

Theft Prevention Functionality

Advanced Wi-Fi 6 Features

Built-in BLE, USB Support

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: 240.5 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	4x4:4	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 (VHT) MHz
	802.11ax	20/40/80/160 (HE) MHz
Wireless Security	WPA3-AES personal, enhanced open (OWE)	
	WPA3-WPA2 Mixed- AES personal, Open	
	WPA2-TKIP/AES personal, Open	
	WPA personal	
	WEP-64, WEP-128,	
	802.11 w MFP (Management Frame Protection)	

	802.11i
	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, PCAP capture (Wired and Wireless), ARP scanner
Access Control List	Bandwidth Restriction per SSID
	L2 (MAC) filtering
	MAX clients per radio
	Internet freeze per SSID/User
Administration	WLAN scheduling
	Schedule reboot
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)
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 384 clients per Access point	
SSID	Up to 32 per access point (16 per Radio)	

RF

Maximum Aggregate Transmit Power	5 GHz	23 dBm
	2.4 GHz	26 dBm
Antenna Type		Built-in integrated antenna for both radios and BLE
Antenna Gain (Max)	5 GHz	7.6 dBi
Antenna Gain (Max)	2.4 GHz	5.5 dBi
EIRP	BLE	5.5 dBi
EIRP (Adjusted as per country regulations)	5 GHz	30.6 dBm
	2.4 GHz	31.5 dBm

Power	
Rating	802.3 af PoE / at PoE+ (Class 4) (Fully functional with all components)
	12V DC 2A - Fully functional with all components
Physical Interfaces	
Ethernet	WAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3at PoE
	LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3at PoE
	802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE)
Console	1 x RJ-45 Ethernet
USB	1 x USB 2.0 port / USB 3.0 (On selected variant)
Buttons	Restart/Reset
LED Indicators	Power, 2.4 GHz, 5 GHz, Uplink
Management	
Device Management	Standalone, Local (web UI), SSH (CLI)
	Quantum Compass
Environmental	
Operating Temperature	0°C (32°F) to 55°C (131°F)
Humidity	Up to 95%, non-condensing
Standard	Plenum-rated (UL2043)
Physical	
Dimensions	19.5 cm (L) x 20.1 cm (W) x 3.98 cm (H)
Mounting Kit	Ceiling mount
Firmware Management	
Cloud-managed firmware update	
Firmware upgrade via Access Point local GUI	

ORDERING INFORMATION

Part Code	Description
QQ-R-7000	Quantum QQ-R-7000 dual-band 802.11ax indoor wireless access point, 4x4:4 streams in 5 GHz and 2x2:2 streams in 2.4GHz, 2x1/2.5G Base-T Ethernet ports, onboard BLE support, 802.3 af/at PoE support. includes 2-year limited liability manufacturer's warranty for the access point. Does not include PoE injector or power adaptor. Does not include cloud controller license.