



QQ-R-7000

State-of-the-art Wi-Fi 6 technology for expanded coverage and outstanding performance in high-demand environments.

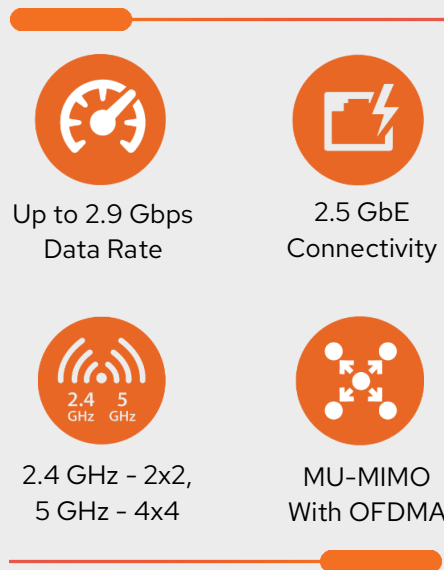
Ideal for resorts, hotels, tech ventures, and Professional environments.

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.



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
	2.4 GHz	802.11ac@ 20 MHz: 240.5 Mbps
		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-Enterprise (802.1x/EAP-TLS, EAP-TTLS)	
	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)	

	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))	
	Pairwise Master Key (PMK) caching	
	Opportunistic key caching	
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)	
USB WAN	USB dongle (3G/4G), Mobile tethering (USB)	
VLAN Support	802.1Q (1 per BSSID), Port-based (Tagged, untagged)	
IoT	Supported (With BLE)	
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.