



Up to 9.3 Gbps  
Data Rate



5 GbE  
Connectivity



2.4 GHz - 2x2,  
5 GHz - 2x2,  
6 GHz - 2x2



MU-MIMO  
With OFDMA



3 Years  
Warranty

The Quantum Networks QN-I-720 Wi-Fi 7 indoor access point delivers multigigabit speeds, robust security, and resilient connectivity for high-density environments. With enhanced speed, capacity, and ultra-low latency, Wi-Fi 7 transforms streaming, gaming, and IoT experiences—ideal for hospitality, education, MDUs, public venues, and service providers.

## PRODUCT OVERVIEW

The QN-I-720 Wi-Fi 7 (802.11be) indoor access point features a 2x2 MU-MIMO configuration, multi-link operation (MLO) for channel aggregation and 4K QAM for higher throughput and lower latency. It unlocks the 6 GHz band, more than doubling the available capacity, making it an advanced connectivity solution tailored for high-performance environments and modern, high-traffic demands.

## KEY FEATURES

### Wi-Fi 7 Standard

The QN-I-720 provides extensive coverage across the 2.4 GHz, 5 GHz, and 6 GHz bands, achieving a maximum tri-band aggregate data rate of 9.3 Gbps. It also offers 5 GbE connectivity to ensure business continuity for mission-critical applications.

### Extend the Benefits of Wi-Fi 7

The QN-I-720 access point, based on the 802.11be standard, provides efficiency and security enhancements on the 6 GHz band. It fully supports Wi-Fi 7 features like OFDMA and BSS Coloring and introduces new capabilities such as wide 320 MHz bandwidth channels, multi-link operation (MLO) for channel aggregation and failover and 4096 QAM (4K QAM) for higher peak data rates.

### Unified Security Center for Wireless and Wired Network Protection

Quantum Hawkeye streamlines wireless security through automated device categorization using proprietary intelligence. It defends against rogue access points, Wi-Fi DoS attacks, and other threats—ensuring strong protection across wired and wireless networks, while boosting core network security to help administrators detect and mitigate risks with confidence.

### Versatile management options

Experience versatile management with options including Quantum Rudder (controller-based, on-premises VM, RR-200/300/400 appliances), SNMP-based NMS, and local web management.

### Theft prevention functionality

Ensure robust theft prevention with secure access point locking, restricting use to designated networks until proper decommissioning.

*The Wi-Fi 7 QN-I-720 Access Point comes IPv6-ready for future-proof network compatibility.*

## KEY SPECIFICATIONS

Wi-Fi		
Wi-Fi Standards	6 GHz	IEEE 802.11a/n/ac/ax/be
	5 GHz	IEEE 802.11a/n/ac/ax/be
	2.4 GHz	IEEE 802.11b/g/n/ax/be
Operating Mode	Access point, Router, Mesh mode	
Networking Mode	IPv4, IPv6, IPv4v6 (Dual-stack), Gateway mode (NAT), Bridge mode	
Maximum Data Rates	6 GHz	802.11be@ 320 MHz: 5765 Mbps
		802.11be@ 160 MHz: 2882 Mbps
		802.11be@ 80 MHz: 1441 Mbps
		802.11be@ 40 MHz: 688 Mbps
		802.11be@ 20 MHz: 344 Mbps
	5 GHz	802.11be@ 160 MHz: 2882 Mbps
		802.11be@ 80 MHz: 1441 Mbps
		802.11be@ 40 MHz: 688 Mbps
		802.11ax@ 160 MHz: 2402 Mbps
		802.11ax@ 80 MHz: 1201 Mbps
		802.11ax@ 40 MHz: 573.5 Mbps
		802.11ax@ 20 MHz: 286.8 Mbps
		802.11ac@ 80 MHz: 1083.3 Mbps
	2.4 GHz	802.11ac@ 40 MHz: 500 Mbps
		802.11ac@ 20 MHz: 240.5 Mbps
		802.11be@ 40 MHz: 688 Mbps
		802.11be@ 20 MHz: 344 Mbps
		802.11ax@ 40 MHz: 573.5 Mbps
802.11ax@ 20 MHz: 286.8 Mbps		
Maximum Receiver Sensitivity	6 GHz	-95 dBm
	5 GHz	-98 dBm
	2.4 GHz	-93 dBm
Supported Channels	6 GHz	1-29, 33-61, 65-93, 97-125, 129-157, 161-189, 193-233 (UNII-1, UNII-2A, UNII-2C, UNII-3, UNII-4, UNII-5, UNII-6, UNII-7, UNII-8 compliant) (As per country regulations)
	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	6 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), 5.925-6.425 GHz(U-NII-5), 6.425-6.525 GHz(U-NII-6), 6.525-6.875 GHz(U-NII-7), 6.875-7.125 GHz(U-NII-8) (As per country regulations)

	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) (As per country regulations)
	2.4 GHz	2.4-2.484GHz (ISM) (As per country regulations)
<b>Modulation Schemes</b>	802.11be	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM, 4096-QAM
	802.11ax	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM, 4096-QAM
	802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
	802.11n	BPSK, QPSK, 16-QAM, 64-QAM, 1024-QAM, 4096-QAM
	802.11b/g	BPSK, QPSK, CCK
<b>Radio Chains and Spatial Streams</b>	2x2:2	Streams in 6GHz-OFDMA with MU-MIMO
	2x2:2	Streams in 5GHz-OFDMA (802.11ax) and OFDM (802.11ac) with MU-MIMO
	2x2:2	Streams in 2.4GHz- OFDM (802.11a/g/n) and DSSS (802.11b) with MU-MIMO
<b>Channel Size</b>	802.11n	20/40 (HT) MHz
	802.11ac	20/40/80 (VHT) MHz
	802.11ax	20/40/80/160 (HE) MHz
	802.11be	20/40/80/160/320 (EHT) MHz
<b>Wireless Security</b>	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)	
	MAC-based authentication	
	Captive portal-based authentication	
	802.11i	
Quantum Secure		
Hide SSID in beacons.		
<b>External DB Support</b>	Radius, Active Directory, LDAP, TACACS+	
<b>Web Authentication</b>	QN-Secure+, RADIUS, Active Directory, LDAP	
<b>User Authentication</b>	Methods	Captive portal, QN-Secure+, 802.1x (Radius)
	Directory	QIM, Microsoft Active Directory, LDAP, G Suite, Oauth
	Mode	Via Controller /Access points
<b>Roaming</b>	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	

	Seamless roaming for captive portal users	
<b>Channel / Tx Power Management</b>	Auto / Manual channel selection	
	Speedy channel for RF optimization	
	Channel switch for RF optimization	
	ATP-Automatic Transmit Power management	
<b>Client Management</b>	Band steering	
	Band balancing	
	Airtime fairness	
<b>Guest Management</b>	WISPr – Captive portal, HotSpot 2.0	
<b>Native Guest Portal</b>	Customized Template	Yes (User-defined, Theme-based)
	Authentication Method	Click-through, Access code, Self-sign-up (SMS, Email), Sponsor-based (Domain-based, Individual Email ID-based)
	Guest Profile Support	Pass validity, Bandwidth restriction, Quota-based
<b>Access Control List</b>	Force DHCP	
	URL & Application filtering/Whitelisting	
	Full Client Isolation, deny inter-user bridging, Deny intra-VLAN traffic	
	Bandwidth Restriction per SSID/per User	
	OS restriction	
	L2 (MAC) filtering	
	L3 (IP) / L4 (Port) filtering	
	MAX clients per radio	
	Internet freeze per SSID / user	
	Session control	
	Random MAC Detection	
<b>Meshing</b>	Wireless (singlehop /multihop)	
	Wired	
<b>WDS</b>	Point to Point	
	Point to MultiPoint	
<b>Radio Management</b>	DTIM interval	
	OFDM Only (Disables 802.11b)	
	BSS Rate and management rate	
	UAPSD (Power save)	
	Inactivity timeout	
	Radio mode control	
	RTS/CTS Threshold	
<b>Network Management</b>	IEEE 802.11d/h (DFS) support	
	LLDP discovery	
	Proxy ARP	
	DHCP options 43, 60, and 82	
	Port forwarding in router mode	

<b>Administration</b>	WLAN scheduling	
	Internet speed test	
	Schedule reboot	
<b>Radius Integration</b>	CoA (Change of Authorization)	
	MAC Authentication	
	Dynamic VLAN	
<b>Wi-Fi7/6 Features</b>	Multi-Link Operation (MLO)	Target wake time
	Multiple BSSID (MBSSID)	BSS colouring
	Reduced Neighbor Report (RNR)	Spatial reuse
	Beacon Protection	Preamble puncturing
	Multi-RU	Orthogonal frequency division multiple access (OFDMA)
<b>Advance Features</b>	Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks.	
	Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit antennas	
	Short guard interval for 20-MHz, 40-MHz, 80-MHz, 160-MHz and 320-MHz	
	Space-time block coding (STBC) for increased range and improved reception	
	Low-density parity check (LDPC) for high-efficiency error correction and increased throughput	
	Transmit beam-forming (TxBF) for increased signal reliability and range.	
<b>HawkEye – Rogue AP/WIDS / WIPS / NIPS</b>		
<b>Rogue AP</b>	Rogue SSID	
	MAC Spoofing	
	SSID Spoofing	
	Honey-pot / Evil twin attack	
	Null Probe request attack	
<b>WIDS</b>	RTS/CTS Abuse attack	
	Auth attack	
	Assoc attack	
	Fata Jack tool attack	
	Man in the Middle attack	
	DHCP snooping server detection	
	AP flood attack	
	Block ACK DoS attack	
	Power saves frame attack	
	Malformed frame-Auth/Assoc attack	
<b>WIDS/WIPS</b>	Deauth attack	
	Disassoc attack	
	Omerta attack	
	Password guessing attack	
	Ad-Hoc connection	
<b>NIPS</b>	Dos attack	
	DDos attack	

	Port scanning	
<b>Diagnostics</b>		
<b>Network Diagnostics</b>	Ping, Traceroute, Nslookup, Internet speed, Host discovery, Port connectivity, ARP scanner	
<b>RF Diagnostics</b>	PCAP capture, Spectrum Analysis, Spectrum Channel metric, Spectrum FFT Duty cycle, WiFi Analyzer, Airbender	
<b>Networking</b>		
<b>SFP/Ethernet WAN</b>	WAN (DHCP/Static/PPPoE)	
<b>Protocols</b>	Static, RIP v2, OSPF v2	
<b>Tunneling</b>	GRE, IPSec, Wireguard, OVPN	
<b>Multi WAN</b>	Yes, Auto Failover	
<b>DHCP Server</b>	4 Scope, DHCP lease, DHCP MAC reservation, DNS proxy	
<b>WAN Security</b>	Ethernet port block management	
<b>PPP Interface</b>	PPPoE, L2TP, L2TP with IPSec	
<b>DNS</b>	Static, Caching, Dynamic DNS	
<b>NAT</b>	Masquerade (SNAT), Port forwarding (DNAT)	
<b>VLAN Support</b>	802.1Q (1 per BSSID), Port-based (Tagged, untagged)	
<b>IoT Capable</b>	Integrated BLE	
	(Zigbee, Matter & Thread support)*	
<b>IGMP</b>	IGMP v2	
	IGMP Snooping	
<b>Supported Features</b>	Safe Search, ALG Control, UPNP, DMZ Host, Adblock	
<b>Quality of Service</b>		
Auto QoS, 802.11e,		
Manual QoS (DSCP-based, Voice, Video, BE, and BK)		
WMM, 802.1p		
WiFi Calling		
DiffServ		
DSCP Tagging		
<b>Performance &amp; Capacity</b>		
<b>Peak PHY Rates</b>	6 GHz	5765 Mbps (802.11be)
	5 GHz	2882 Mbps (802.11be)
	2.4 GHz	688 Mbps (802.11be)
<b>Client Capacity</b>	Up to 1536 clients per Access point	
<b>SSID</b>	Up to 48 per access point (16 per Radio for 2.4 & 5 GHz, 8 per Radio for 6 GHz)	
<b>RF</b>		
<b>Maximum Aggregate Transmit Power (Adjusted as per country regulations)</b>	6 GHz	24 dBm
	5 GHz	25 dBm
	2.4 GHz	26 dBm
<b>Antenna Type</b>	Built-in integrated antenna for both radios and BLE	
<b>Antenna Gain (Max)</b>	6 GHz	5 dBi

	5 GHz	6 dBi
	2.4 GHz	6 dBi
	BLE	3.7 dBi
<b>EIRP (Adjusted as per country regulations)</b>	6 GHz	29 dBm
	5 GHz	31 dBm
	2.4 GHz	32 dBm
<b>Power</b>		
<b>Rating</b>	802.3 at PoE+ (Class 4) (Fully functional with all components)	
	USB PD3.0 in 15-20V DC 2A - Fully functional with all components	
<b>Physical Interfaces</b>		
<b>Ethernet</b>	WAN: 1 x 10/100/1000/2.5/5G N Base -T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE	
	LAN: 1 x 10/100/1000 Base -T Ethernet, Auto MDIX, RJ-45	
	802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE)	
<b>Console</b>	1 x Serial Console	
<b>Kensington Security Slot</b>	Available	
<b>Buttons</b>	Restart/Reset	
<b>LED Indicators</b>	Quick Setup, Cloud / Standalone	
<b>Management</b>		
<b>Device Management</b>	Standalone, Local (web UI), SSH (CLI)	
	Quantum Rudder (Controller-based)	
	Quantum Rudder (On-premises VM)	
	Quantum Rudder appliances (RR-200, RR-300, RR400)	
	Through NMS using SNMP MIBs	
	Local device web management	
<b>Device /System Monitoring</b>	SNMP v1, v2c, v3, Syslog	
<b>NTP Server Configuration</b>	Supported	
<b>Traffic Monitoring</b>	Application Statistics	
	IPDR Logs (IPFix, Netflow v9)	
	URL Logs (Syslog)	
<b>Controller DR (Disaster Recovery)</b>	Supported	

<b>Device Security</b>	
<b>Certificate</b>	Locally-significant certificates using PKI
<b>Controller Communication</b>	Encrypted
<b>Port Access</b>	802.1x RADIUS supplicant
<b>Application Integration</b>	
PM WANI,	
NMS Integration - ZABBIX, PRTG Monitor, Open NMS	
SIEM Integration - Splunk, IBM QRadar (Syslog format)	
<b>Environmental</b>	
<b>Operating Temperature</b>	0°C (32°F) to 55°C (131°F)
<b>Humidity</b>	Up to 95%, non-condensing
<b>Standard</b>	Plenum-rated (UL2043)
<b>Physical</b>	
<b>Dimensions</b>	17.9 cm (L) x 19.5 cm (W) x 3.5 cm (H)
<b>Weight</b>	0.907 kg (1.99 lbs)
<b>Mounting Kit</b>	Ceiling mount, wall mount
<b>Firmware Management</b>	
Cloud-managed firmware update	
Scheduled firmware and security update	
Firmware upgrade via Access Point local GUI	

<b>Certifications and Compliances</b>		
	<b>Parameter</b>	<b>Standards</b>
<b>Regulatory (IN)</b>	IPv6 Ready	
	ETA (WPC)	NABL 2.4, NABL 5

## ORDERING INFORMATION

<b>QN-I-720</b>	The Quantum Networks QN-I-720 is a tri-band 802.11be indoor wireless access point with 2x2:2 streams in the 6 GHz, 5 GHz, and 2.4 GHz bands. It features 1x 1/2.5/5 G N Base-T Ethernet port, 1x 1 G Base-T Ethernet port, onboard BLE support, and 802.3at PoE+ support. The access point includes a 3-year limited liability manufacturer's warranty. Does not include PoE injector or power adaptor. Does not include cloud controller license.
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*\*Expected in future software release*