IN-DOOR ACCESS POINT QN-H-725





The QN-H-725 introduces a new era in in-room connectivity with one of the first Wi-Fi 7 (802.11be) access points, designed specifically for in-room deployments across hospitality, student housing and residential spaces.

PRODUCT OVERVIEW

With a real-world data rate of up to 3.5 Gbps, the QN-H-725 supports latency-sensitive applications like UHD video streaming, virtual/augmented reality and real-time social gaming. The device includes a 2.5 Gbps Ethernet port, eliminating backhaul bottlenecks and fully unlocking Wi-Fi 7's potential.

Smoothly managed through the Quantum Rudder, each access point includes a three-year limited liability warranty from the date of activation, along with asset protection via built-in theft prevention.



Up to 3.5 Gbps Data Rate



2.5 GbE Connectivity



2.4 GHz - 2x2, 5 GHz - 2x2

Next-Gen Wi-Fi 7 Performance

KEY FEATURES

Built on the latest 802.11be standard, it delivers exceptional speed and responsiveness with support for 320 MHz channel width, Multi-Link Operation (MLO), and 4K QAM—ideal for bandwidth-heavy applications in hospitality or enterprise in-room environments.

High-Capacity Dual-Band Design

Equipped with dual radios and 2x2:2 MU-MIMO on both 2.4 GHz and 5 GHz bands, it ensures stable, simultaneous connectivity for multiple users and devices—perfect for modern connected spaces.

Seamless Mesh Networking

Leverages advanced Wi-Fi 7 capabilities to enable high-speed, self-healing mesh connectivity for in-room deployments. Ensures continuous coverage, optimal backhaul performance using Multi-Link Operation (MLO), and intelligent path selection for seamless roaming and low-latency user experiences.



MU-MIMO With OFDMA



3 Years Warranty

Cloud-Ready Management

Easily managed via Quantum Rudder for cloud or on-premises control, offering zero-touch provisioning, bulk firmware upgrades, and simplified scaling across large properties or chains.

Security & Deployment Efficiency

Advanced wireless security with WPA3 and Dynamic PSK, combined with OFDMA and PoE pass-through ports, supports both secure access and easy connectivity for in-room devices like IP phones, TVs, or IoT sensors without additional cabling.



KEY SPECIFICATIONS

Wi-Fi		
Wi-Fi Standards	5 GHz	IEEE 802.11a/n/ac/ax/be
WI-FI Stalldal US	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		802.11be@ 160 MHz: 2882 Mbps
		802.11be@ 80 MHz: 1441 Mbps
		802.11be@ 40 MHz: 688 Mbps
		802.11ax@ 160 MHz: 2402 Mbps
	5 GHz	802.11ax@ 80 MHz: 1201 Mbps
	5 GHZ	802.11ax@ 40 MHz: 573.5 Mbps
		802.11ax@ 20 MHz: 286.8 Mbps
		802.11ac@ 80 MHz: 1083.3 Mbps
		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
	2.4 GHz	802.11ax@ 20 MHz: 286.8 Mbps
		802.11n@ 40 MHz: 500 Mbps
		802.11b/g@ 20 MHz: 54 Mbps
		802.11b@ 20 MHz: 11 Mbps
Maximum Receiver	5 GHz	-98 dBm
Sensitivity	2.4 GHz	-93 dBm
	5 GHz	36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2e, UNII-3 compliant) (As per country regulations)
Supported Channels	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) (As per country regulations)
	2.4 GHz	2.4-2.484GHz (ISM) (As per country regulations)
	802.11be	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM, 4096-QAM
Modulation Schemes	802.11ax	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM, 4096-QAM
Jaalativii Veliciiica	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
Radio Chains and Spatial	2x2:2	Streams in 5GHz-OFDMA (802.11ax) and OFDM (802.11ac) with MU-MIMO
Streams	2x2:2	Streams in 2.4GHz- OFDM (802.11a/g/n) and DSSS (802.11b) with MU-MIMO



Channel Size 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 802.11be 20/40/80/160/320 (EHT) MHz 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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius) Directory QIM, Microsoft active directory, LDAP, Gsuite, Oauth		802.11n	20/40 (HT) MHz
## Security ## Sec			
802.11ax 20/40/80/160 (HE) MHz	Channal Siza	802.11ac	20/40/80 (VHT) MHz
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)	Channel Size	802.11ax	20/40/80/160 (HE) MHz
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		802.11be	20/40/80/160/320 (EHT) MHz
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		WPA3-AES personal, Enhanced open (OWE)	
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)	Wireless Security	WPA3-Enterprise (802.1x/EAP-TLS, EAP-TTLS)	
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		WPA3-WPA2 Mixed- AES personal, Open	
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		WPA2-TKIP/AES personal, Open	
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 External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		WPA2-Enterprise (802.1x/EAP-PEAP, EAP-TLS, EAP-TTLS)	
802.11 w MFP (Management Frame Protection) MAC based authentication Captive portal-based authentication 802.11i Quantum Secure Hide SSID in beacons External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		WPA personal, WPA Mixed-Enterprise (802.1x/EAP-PEAP)	
MAC based authentication Captive portal-based authentication 802.11i Quantum Secure Hide SSID in beacons External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		WEP-64, WEP-128,	
Captive portal-based authentication 802.11i Quantum Secure Hide SSID in beacons External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		802.11 w MFP (Management Frame Protection)	
802.11i Quantum Secure Hide SSID in beacons External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		MAC based authent	tication
Quantum Secure Hide SSID in beacons External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		Captive portal-base	ed authentication
Hide SSID in beacons External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		802.11i	
External DB Support Radius, Active directory, LDAP, TACACS+ Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		Quantum Secure	
Web Authentication QN-Secure+, RADIUS, Active directory, LDAP Methods Captive portal, QN-Secure+, 802.1x (Radius)		Hide SSID in beacons	
Methods Captive portal, QN-Secure+, 802.1x (Radius)	External DB Support	Radius, Active directory, LDAP, TACACS+	
Heav Authoritanian	Web Authentication	QN-Secure+, RADIUS, Active directory, LDAP	
User Authentication Directory QIM, Microsoft active directory, LDAP, Gsuite, Oauth		Methods	Captive portal, QN-Secure+, 802.1x (Radius)
	User Authentication	Directory	QIM, Microsoft active directory, LDAP, Gsuite, Oauth
Mode Via Controller / Access points		Mode	Via Controller /Access points
IEEE 802.11k (Assisted Roaming)		·	
IEEE 802.11v (BSS Transition Management)			
IEEE 802.11r (Fast BSS Transition (FT))		, , , , , , , , , , , , , , , , , , , ,	
Roaming Pairwise Master Key (PMK) caching	Roaming	, , , , , , , , , , , , , , , , , , , ,	
Opportunistic key caching			
Seamless roaming for captive portal users			
Auto / Manual channel selection			
Channel / Tx Power Speedy channel for RF optimization	Channel / Tx Power	Speedy channel for RF optimization	
Management Channel switch for RF optimization	Management	Channel switch for RF optimization	
ATP-Automatic Transmit Power management		ATP-Automatic Transmit Power management	
Band steering		Band steering	
Client Management Band balancing	Client Management	Band balancing	
Airtime fairness		Airtime fairness	
Guest Management WISPr - Captive portal, HotSpot 2.0	Guest Management	WISPr – Captive po	rtal, HotSpot 2.0
Customized Yes (User define, Theme based)			Yes (User define Theme based)
Template			
Native Guest Portal Authentication Method Authentication Method Click-through, Access code, Self-sign-up (SMS, Email), Sponsor based (Domain-based, Individual Email ID based)	Native Guest Portal		
Guest Profile			
Support Pass validity, Bandwidth restriction, Quota based		Support	Pass validity, Bandwidth restriction, Quota based



	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	
Access Control List	L2 (MAC) filtering	
	L3 (IP) / L4 (Port) filtering	
	MAX clients per radio	
	Internet freeze per SSID / user	
	Session control	
	Random MAC Detection	
Meshing	Wireless (singlehop / multihop)	
	Wired	
WDS	Point to Point	
	Point to MultiPoint	
	DTIM interval	
	OFDM Only (Disables 802.11b)	
	BSS Rate and management rate	
Radio Management	UAPSD (Power save)	
	Inactivity timeout	
	Radio mode control	
	RTS/CTS Threshold	
	IEEE 802.11d/h (DFS) support	
	LLDP discovery, SFlow	
Network Management	Proxy ARP	
	DHCP options 43, 60 and 82	
	Port forwarding in router mode	
	WLAN scheduling	
Administration	Internet speed test	
	Schedule reboot	
	CoA (Change of Authorization)	
Radius Integration	MAC Authentication	
	Dynamic VLAN	
	Target wake time	
	Multi-Link Operation	
	BSS colouring	
Wi-Fi7/6 Features	Spatial reuse	
	Orthogonal frequency division multiple access (OFDMA)	
	Preamble puncturing	
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	Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks	
Advance Features	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 360-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	
HawkEye - Rogue/WIDS		
	Rogue SSID	
Rogue AP	MAC Spoofing	
	SSID Spoofing	
	Honeypot / Evil twin attack	
	Null Probe request attack	
	RTS/CTS Abuse attack	
	Auth attack	
	Assoc attack	
	Fata jack tool attack	
WIDG	Man in the Middle attack	
WIDS	DHCP snooping server detection	
	AP flood attack	
	Block ACK DoS attack	
	Power saves frame attack	
	Malformed frame-Auth/Assoc attack	
	Deauth attack	
	Disassoc attack	
WIDS/WIPS	Omerta attack	
	Password guessing attack	
	Ad-Hoc connection	
	Dos attack	
NIPS	DDos attack	
	Port scanning	
Diagnostics		
Network Diagnostics	Ping, Traceroute, Nslookup, Internet speed, Host discovery, Port connectivity, ARP scanner	
RF Diagnostics	PCAP capture, Spectrum Analysis, Spectrum Channel metric, Spectrum FFT Duty cycle, WiFi Analyzer, Airbender	



Networking			
SFP/Ethernet WAN	WAN (DHCP/Static/PPPoE)		
USB WAN	USB dongle (3G/4G), Mobile tethering (USB)		
Protocols	Static, RIP v2, OSPF v2		
Tunneling	GRE, IPSec, Wire guard, OVPN		
Multi WAN	Yes, Auto Failover		
DHCP Server	4 Scope, DHCP lease, DHCP MAC reservation, DNS proxy		
WAN Security	Ethernet / USB port block management		
PPP Interface	PPPoE, L2TP, L2TP with IPSec		
DNS	Static, Caching, Dynamic DNS		
NAT	Masquerade (SNAT), Port forwarding (DNAT)		
VLAN Support	802.1Q (1 per BSSID), Port-based (Tagged, untagged)		
IoT	Supported		
	IGMP v2		
IGMP	IGMP Snooping		
	Safe Search, ALG Control		
Supported Features	UPNP, DMZ Host, Adblock		
Quality of Service			
Auto QoS, 802.11e,			
Manual QoS (DSCP based, Vo	ice, Video, BE and BK)		
WMM, 802.1p			
WiFi Calling			
DiffServ			
DSCP Tagging			
Performance & Capacity			
Peak PHY Rates	5 GHz	2882 Mbps (802.11be)	
reak PHT Rates	2.4 GHz	688 Mbps (802.11be)	
Client Capacity	Up to 384 clients per Access point		
SSID	Up to 32 per access point (16 per Radio)		
RF			
Maximum Aggregate	5 GHz	23 dBm	
Transmit Power (Adjusted as per country	24611-	24 dDm	
regulations)	2.4 GHz	24 dBm	
Antenna Type	Built-in integrated antenna for both radio	OS .	
	5 GHz	3.3 dBi	
Antenna Gain (Max)	2.4 GHz	3 dBi	
EIRP (Adjusted as per	5 GHz	26.3 dBm	
country regulations)	2.4 GHz	27 dBm	
D-4in	802.3 at PoE+ (Class 4) (Fully functional with all components)		
Rating	48V DC2.0 0.5A - Fully functional with all components		



Physical Interfaces		
	WAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3at	
Ethernet	РоЕ	
	LAN: 3 x 10/100/1000 Base -T ethernet, Auto MDIX, RJ-45	
	PoE out/LAN: 1 x 10/100/1000 Base-T Ethernet, Auto-MDIX, RJ-45, Supports	
	802.3af PoE out while the system is powered by 802.3at 802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE)	
	Pass-Thru (Input and Output): 2 x RJ45 based Ethernet	
Console	1x RJ-45 Ethernet	
USB	1x USB 2.0	
Buttons	Restart/Reset	
LED Indicators	SYS, 2.4 GHz, 5 GHz, WAN, LAN	
Management		
Management	Standalone, Local (web UI), SSH (CLI)	
	Quantum Rudder (Controller based)	
	Quantum Rudder (On-premises VM)	
Device Management	Quantum Rudder (On pictinises VIVI) Quantum Rudder appliances (RR-200, RR-300, RR400)	
	Through NMS using SNMP MIBs	
	Local device web management	
Device /System	<u> </u>	
Monitoring	SNMP v1, v2c, v3, Syslog	
NTP Server Configuration	Supported	
	Application Statistics	
Traffic Monitoring	IPDR Logs (IPFix ,Netflow v9)	
	URL Logs (Syslog)	
Controller DR	Supported	
(Disaster Recovery)		
Device Security Certificate	Locally-significant cortificatos using PKI	
Controller	Locally-significant certificates using PKI	
Communication	Encrypted	
Port Access	802.1x RADIUS supplicant	
Application Integration		
PM WANI,		
NMS Integration - ZABBIX, PR	TG Monitor, Open NMS	
SIEM Integration- Splunk, IBM	QRaadar (Syslog format)	
Environmental		
Operating Temperature	-10°C (14°F) to 55°C (131°F)	
Humidity	Up to 95%, non-condensing	
Standard	Plenum-rated (UL2043)	
Physical		
Dimensions	16 cm (L) x 8.6 cm (W) x 2.9 cm (H)	



Mounting Kit Ceiling Mount, Wall mount	
Firmware Management	
Cloud-managed firmware update	
Scheduled firmware and security update	
Firmware upgrade via Access Point local GUI	

ORDERING INFORMATION

	The Quantum Networks QN-H-725 is a dual-band 802.11be in-room wireless access point
	with 2x2:2 streams in the 5 GHz, and 2.4 GHz bands. It features 1x2.5G N Base-T Ethernet
QN-H-725	port, 4x1G Base-T Ethernet ports, 2xPassthru ports 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.