INDOOR ACCESS POINT QN-I-720







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-Fi7

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.



KEY SPECIFICATIONS

Wi-Fi		
	6 GHz	IEEE 802.11a/n/ac/ax/be
Wi-Fi Standards	5 GHz	IEEE 802.11a/n/ac/ax/be
	2.4 GHz	IEEE 802.11b/g/n/ax/be
Operating Mode	Access point, Router, M	lesh mode
Networking Mode	IPv4, IPv6, IPv4v6 (Dua	ıl-stack), Gateway mode (NAT), Bridge mode
		802.11be@ 320 MHz: 5765 Mbps
		802.11be@ 160 MHz: 2882 Mbps
	6 GHz	802.11be@ 80 MHz: 1441 Mbps
		802.11be@ 40 MHz: 688 Mbps
		802.11be@ 20 MHz: 344 Mbps
		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
Maximum Data Rates	3 GHZ	802.11ax@ 40 MHz: 573.5 Mbps
Maxillulli Data Rates		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
Mariana Baraina	6 GHz	-95 dBm
Maximum Receiver Sensitivity	5 GHz	-98 dBm
Jensierrey	2.4 GHz	-93 dBm
	6 GHz	1-29, 33-61, 65-93, 97-125, 129-157, 161-189, 193-233 (UNII-
Supported Channels		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
	2.4 GHz	compliant) (As per country regulations) 1-13 (As per country regulations)
	2.4 0112	
		Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
		5.15-5.25 GHz (U-NII-1), 5.25-5.35 GHz (U-NII-2A),
Channel Bands	6 GHz	5.47-5.725 GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3)
Cildillici Dallus		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)	
Modulation Schemes	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	
	2x2:2	Streams in 6GHz-OFDMA with MU-MIMO	
Radio Chains and Spatial Streams	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	
	802.11n	20/40 (HT) MHz	
Channel Size	802.11ac	20/40/80 (VHT) MHz	
Channel Size	802.11ax	20/40/80/160 (HE) 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)		
Wireless Security	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,	QN-Secure+, RADIUS, Active directory, LDAP	
User Authentication	Methods	Captive portal, QN-Secure+, 802.1x (Radius)	
	Directory	QIM, Microsoft active directory, LDAP, Gsuite, Oauth	
	Mode	Via Controller / Access points	
Danwing	IEEE 802.11k (Assisted Roaming)		
Roaming	IEEE 802.11v (BSS Transition Management)		



	IFFF 802 11r (Fact BSS	Transition (FT))	
	IEEE 802.11r (Fast BSS Transition (FT)) Pairwise Master Key (PMK) caching		
	Opportunistic key caching		
	Seamless roaming for captive portal users		
	Auto / Manual channel selection		
Channel / Tx Power Management	Speedy channel for RF		
Management	Channel switch for RF optimization		
	ATP-Automatic Transmit Power management		
	Band steering		
Client Management	Band balancing		
	Airtime fairness		
Guest Management	WISPr – Captive portal,		
	Customized Template	Yes (User define, Theme based)	
Native Guest Portal	Authentication	Click-through, Access code, Self-sign-up (SMS, Email),	
	Method	Sponsor based (Domain-based, Individual Email ID based)	
	Guest Profile Support	Pass validity, Bandwidth restriction, Quota based	
	Force DHCP	AAR	
	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		
Mesiling			
WDC	Point to Point		
Point to MultiPoint			
	DTIM interval		
	OFDM Only (Disables 802.11b)		
	BSS Rate and management rate		
Radio Management	UAPSD (Power save)		
Š	Inactivity timeout		
	Radio mode control		
	RTS/CTS Threshold		
	IEEE 802.11d/h (DFS) support		
Network Management	LLDP discovery		



	Proxy ARP	
	DHCP options 43, 60 and 82	
	Port forwarding in router mode	
	WLAN scheduling	
Administration	Internet speed test	
	Schedule reboot	
Radius Integration	CoA (Change of Authorization)	
	MAC Authentication	
	Dynamic VLAN	
	Target wake time	
	Multi-Link Operation	
W. E.2.6 E	BSS colouring	
Wi-Fi7/6 Features	Spatial reuse	
	Orthogonal frequency division multiple access (OFDMA)	
	Preamble puncturing	
	Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks	
	Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit	
	Short guard interval for 20-MHz, 40-MHz, 80-MHz, 160-MHz and 320-MHz	
Advance Features	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 AP/V	VIDS / WIPS / NIPS	
	Rogue SSID	
	MAC Spoofing	
Rogue AP	SSID Spoofing	
	Honeypot / Evil twin attack	
	Null Probe request attack	
	RTS/CTS Abuse attack	
	Auth attack	
	Assoc attack	
WIDS	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	
	Deauth attack	



	Disassoc attack			
	Omerta attack			
	Password guessing attack	Password guessing attack		
	Ad-Hoc connection			
	Dos attack			
NIPS	DDos attack			
	Port scanning			
Diagnostics				
Network Diagnostics	scanner	net speed, Host discovery, Port connectivity, ARP		
RF Diagnostics	PCAP capture, Spectrum Analysi cycle, WiFi Analyzer, Airbender	s, Spectrum Channel metric, Spectrum FFT Duty		
Networking				
SFP/Ethernet WAN	WAN (DHCP/Static/PPPoE)			
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 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 (With BLE)			
IGMP	IGMP v2			
IOMP	IGMP Snooping			
Supported Features	Safe Search, ALG Control			
Supported reatures	UPNP, DMZ Host, Adblock			
Quality of Service				
Auto QoS, 802.11e,				
Manual QoS (DSCP base	d, Voice, Video, BE and BK)			
WMM, 802.1p				
WiFi Calling				
DiffServ				
DSCP Tagging				
Performance & Capacit	у			
	6 GHz	5765 Mbps (802.11be)		
Peak PHY Rates	5 GHz	2882 Mbps (802.11be)		
	2.4 GHz	688 Mbps (802.11be)		
Client Capacity	Up to 1536 clients per Access	point		



SSID	Up to 36 per access point (16 per	Radio for 2.4 & 5 GHz, 2 per Radio for 6 GHz)
RF		
Maximum Aggregate	6 GHz	24 dBm
Transmit Power (Adjusted as per country regulations)	5 GHz	25 dBm
	2.4 GHz	26 dBm
Antenna Type	Built-in integrated antenna for both radios and BLE	
71	6 GHz	5 dBi
	5 GHz	6 dBi
Antenna Gain (Max)	2.4 GHz	6 dBi
	BLE	3.7 dBi
	6 GHz	29 dBm
EIRP (Adjusted as per	5 GHz	31 dBm
country regulations)	2.4 GHz	32 dBm
Power		
	802.3 at PoE+ (Class 4) (Fully fui	nctional with all components)
Rating	USB PD3.0 in 15-20V DC 2A - Fu	lly functional with all components
Physical Interfaces		
Ethernet	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	
Console	802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE)	
Kensington Security Slot	1x Serial Console	
Buttons	Available Pertent (Peret	
LED Indicators	Restart/Reset	
	Quick Setup, Cloud / Standalone	
Management	Standalona Logal (wab LII) CSH	
	Standalone, Local (web UI), SSH (CLI)	
	Quantum Rudder (Controller based)	
Device Management	Quantum Rudder (On-premises VM) Quantum Rudder appliances (PR 200 PR 200 PR400)	
	Quantum Rudder appliances (RR-200, RR-300, RR400) Through NMS using SNMP MIRs	
	Through NMS using SNMP MIBs	
Device /System	Local device web management	
Monitoring	SNMP v1, v2c, v3, Syslog	
NTP Server Configuration	Supported	
	Application Statistics	
Traffic Monitoring	IPDR Logs (IPFix , Netflow v9)	
	URL Logs (Syslog)	
Controller DR (Disaster Recovery)	Supported	



Device Security		
Certificate	Locally-significant certificates using PKI	
Controller Communication	Encrypted	
Port Access	802.1x RADIUS supplicant	
Application Integration	OOZ.IXTV IDTOC Supplicant	
PM WANI,		
NMS Integration - ZABBIX, PR	TG Manitar Open NMS	
SIEM Integration - Splunk, IBM		
Environmental	i Whaadai (3ysiog ioiillat)	
Operating Temperature	0°C (32°F) to 55°C (131°F)	
Humidity	Up to 95%, non-condensing	
Standard	Plenum-rated (UL2043)	
Physical		
Dimensions	17.9 cm (L) x 19.5 cm (W) x 3.5 cm (H)	
Weight	0.907 kg (1.99 lbs)	
Mounting Kit	Ceiling mount, Wall mount	
Firmware Management		
Cloud-managed firmware upda	Cloud-managed firmware update	
Scheduled firmware and securi	Scheduled firmware and security update	
Firmware upgrade via Access Point local GUI		

ORDERING INFORMATION

QN-I-720	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 1x1/2.5/5G N Base-T Ethernet port, 1x1G 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.