

INDOOR ACCESS POINT

QN-I-720



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.



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 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 |
| | | 802.11ac@ 40 MHz: 500 Mbps |
| | 802.11ac@ 20 MHz: 240.5 Mbps | |
| | 2.4 GHz | 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 |
| | | 802.11n@ 40 MHz: 500 Mbps |
| | | 802.11b/g@ 20 MHz: 54 Mbps |
| 802.11b@ 20 MHz: 11 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) |

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| | | (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 |
| Radio Chains and Spatial Streams | 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 |
| Channel Size | 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 |
| 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) | |
| | 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 | |
| User Authentication | Methods | Captive portal, QN-Secure+, 802.1x (Radius) |
| | Directory | QIM, Microsoft active directory, LDAP, Gsuite, Oauth |
| | Mode | Via Controller /Access points |
| Roaming | IEEE 802.11k (Assisted Roaming) | |
| | IEEE 802.11v (BSS Transition Management) | |

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| | IEEE 802.11r (Fast BSS Transition (FT)) | |
| | Pairwise Master Key (PMK) caching | |
| | Opportunistic key caching | |
| | Seamless roaming for captive portal users | |
| Channel / Tx Power Management | Auto / Manual channel selection | |
| | Speedy channel for RF optimization | |
| | Channel switch for RF optimization | |
| | ATP-Automatic Transmit Power management | |
| Client Management | Band steering | |
| | Band balancing | |
| | Airtime fairness | |
| Guest Management | WISPr – Captive portal, HotSpot 2.0 | |
| Native Guest Portal | Customized Template | Yes (User define, 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 |
| Access Control List | 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 | |
| Meshing | Wireless (singlehop / multihop) | |
| | Wired | |
| WDS | Point to Point | |
| | Point to MultiPoint | |
| Radio Management | DTIM interval | |
| | OFDM Only (Disables 802.11b) | |
| | BSS Rate and management rate | |
| | UAPSD (Power save) | |
| | Inactivity timeout | |
| | Radio mode control | |
| | RTS/CTS Threshold | |
| Network Management | IEEE 802.11d/h (DFS) support | |
| | LLDP discovery | |

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| | Proxy ARP |
| | DHCP options 43, 60 and 82 |
| | Port forwarding in router mode |
| Administration | WLAN scheduling |
| | Internet speed test |
| | Schedule reboot |
| Radius Integration | CoA (Change of Authorization) |
| | MAC Authentication |
| | Dynamic VLAN |
| Wi-Fi7/6 Features | Target wake time |
| | Multi-Link Operation |
| | BSS colouring |
| | Spatial reuse |
| | Orthogonal frequency division multiple access (OFDMA) |
| | Preamble puncturing |
| Advance Features | 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 |
| HawkEye – Rogue AP/WIDS / WIPS / NIPS | |
| Rogue AP | Rogue SSID |
| | MAC Spoofing |
| | SSID Spoofing |
| | Honeypot / Evil twin attack |
| | Null Probe request attack |
| WIDS | 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 |
| WIDS/WIPS | Deauth attack |

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| | Disassoc attack | |
| | Omerta attack | |
| | Password guessing attack | |
| | Ad-Hoc connection | |
| NIPS | Dos attack | |
| | 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) | |
| 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 | |
| | IGMP Snooping | |
| Supported Features | Safe Search, ALG Control, UPNP, DMZ Host, Adblock | |
| Quality of Service | | |
| Auto QoS, 802.11e, | | |
| Manual QoS (DSCP based, Voice, Video, BE and BK) | | |
| WMM, 802.1p | | |
| WiFi Calling | | |
| DiffServ | | |
| DSCP Tagging | | |
| Performance & Capacity | | |
| Peak PHY Rates | 6 GHz | 5765 Mbps (802.11be) |
| | 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 48 per access point (16 per Radio for 2.4 & 5 GHz, 8 per Radio for 6 GHz) | |

| RF | | |
|---|---|---------|
| Maximum Aggregate Transmit Power (Adjusted as per country regulations) | 6 GHz | 24 dBm |
| | 5 GHz | 25 dBm |
| | 2.4 GHz | 26 dBm |
| Antenna Type | Built-in integrated antenna for both radios and BLE | |
| Antenna Gain (Max) | 6 GHz | 5 dBi |
| | 5 GHz | 6 dBi |
| | 2.4 GHz | 6 dBi |
| | BLE | 3.7 dBi |
| EIRP (Adjusted as per country regulations) | 6 GHz | 29 dBm |
| | 5 GHz | 31 dBm |
| | 2.4 GHz | 32 dBm |
| Power | | |
| Rating | 802.3 at PoE+ (Class 4) (Fully functional with all components) | |
| | USB PD3.0 in 15-20V DC 2A - Fully 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 | |
| | 802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE) | |
| Console | 1 x Serial Console | |
| Kensington Security Slot | Available | |
| Buttons | Restart/Reset | |
| LED Indicators | Quick Setup, Cloud / Standalone | |
| Management | | |
| Device Management | 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 | |
| Device /System Monitoring | SNMP v1, v2c, v3, Syslog | |
| NTP Server Configuration | Supported | |
| Traffic Monitoring | Application Statistics | |
| | 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 | |
| PM WANI, | |
| NMS Integration - ZABBIX, PRTG Monitor, Open NMS | |
| SIEM Integration - Splunk, IBM QRadar (Syslog format) | |
| Environmental | |
| 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 update | |
| Scheduled firmware and security update | |
| Firmware upgrade via Access Point local GUI | |

| Certifications and Compliances | | |
|--------------------------------|------------|------------------|
| | Parameter | Standards |
| Regulatory (IN) | IPv6 Ready | |
| | ETA (WPC) | NABL 2.4, NABL 5 |

ORDERING INFORMATION

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| QN-I-720 | <p>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.</p> |
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