IN-DOOR ACCESS POINT
QN-I-710

The QN-I-710 delivers robust, high-performance Wi-Fi for diverse indoor environments. Ideal for office, campus, and hospitality spaces, it supports stable dual-band connectivity and efficient client handling in high-density backdrops.

PRODUCT OVERVIEW

The QN-I-710 is built for delivering fast, reliable indoor Wi-Fi in high-density environments like hospitality, education, and small enterprise networks. It focuses on accessible, stable connectivity with simplified deployment and strong security.

Key functionalities include dual-band 2x2:2 MU-MIMO, Wi-Fi 7 support with Multi-Link Operation (MLO), advanced threat protection via the integrated HawkEye security engine, and efficient client handling across both 2.4 GHz and 5 GHz bands.

Highlights include support for 160 MHz channel bandwidth and advanced wireless technologies like OFDMA and 4096-QAM, enabling high throughput, low latency, and dependable performance in compact indoor deployments.

Up to 3.5 Gbps Data Rate

2.5 GbE Connectivity

2.4 GHz - 2x2, 5 GHz – 2x2

MU-MIMO With OFDMA

3 Years Warranty

KEY FEATURES

Wi-Fi 7 (802.11be) Performance

Leverages the 802.11be (Wi-Fi 7) standard to deliver ultra-high throughput and low latency. Supports 160 MHz channel gain bandwidth, Multi-Link Operation (MLO), and 4096-QAM modulation that is optimized for high-density, high-bandwidth applications in enterprise deployments.

High-Capacity Dual-Band Architecture

Features dual concurrent radios with 2x2:2 MU-MIMO support on both 2.4 GHz and 5 GHz bands, enabling reliable, simultaneous multi-user connectivity. Designed to support high-density device environments in modern enterprise spaces.

Advanced Threat Detection with HawkEye

The QN-I-710 features HawkEye, a built-in WIDS/WIPS/NIPS engine that detects and mitigates rogue APs, spoofed SSIDs, honeypots, and null probe attacks. It defends against wireless threats like auth floods, deauth/disassoc attacks, DHCP spoofing, and password guessing. HawkEye also protects against network-layer risks such as DoS, DDoS, and port scanning, ensuring strong, continuous security in indoor environments.

Cloud-Ready Management

Fully integrated with Quantum Rudder for centralized cloud or on-premises management. Supports zero-touch provisioning, bulk firmware updates, and streamlined scalability across multi-site deployments and large-scale properties.

KEY SPECIFICATIONS

Wi-Fi		
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, Mesh mode	
Networking Mode	IPv4, IPv6, IPv4v6 (Dual-stack), Gateway mode (NAT), Bridge mode	
Maximum Data Rates	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	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) (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 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 (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)	
	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-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

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, SFlow
	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 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 / 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
	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	
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	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	5 GHz	2882 Mbps (802.11be)
	2.4 GHz	688 Mbps (802.11be)
Client Capacity	Up to 512 clients per Access point	
SSID	Up to 32 per access point (16 per Radio)	
RF		
Maximum Aggregate 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	
Antenna Gain (Max)	5 GHz	4 dBi
	2.4 GHz	4 dBi
EIRP (Adjusted as per country regulations)	5 GHz	29 dBm
	2.4 GHz	30 dBm
Rating	802.3 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
	802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE)
Buttons	Restart/Reset
LED Indicators	Power, 2.4 GHz, 5 GHz, Standalone/Cloud
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	-10°C (14°F) to 55°C (131°F)
Humidity	Up to 95%, non-condensing
Standard	Plenum-rated (UL2043)
Physical	
Dimensions	18.6 cm (L) x 18.6 cm (W) x 3.7 cm (H)
Weight	0.55 kg (1.21 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	

ORDERING INFORMATION

QN-I-710	The Quantum Networks QN-I-710 is a dual-band 802.11be indoor wireless access point with 2x2:2 streams in the 5 GHz and 2.4 GHz bands. It features a 1x2.5G PoE N Base-T Ethernet port. 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.