INDOOR ACCESS POINT QN-I-210







Up to 1.7 Gbps Data Rate



1G Connectivity



2.4 GHz - 2x2, 5 GHz - 2x2



MU-MIMO With OFDMA



In areas with a medium population density, the demand for wireless infrastructure is frequently high due to consistent data-intensive applications and content usage. Users in these areas expect dependable and robust connectivity. QN-I-210 effectively fulfils these needs without incurring excessive expenses.

PRODUCT OVERVIEW

The QN-I-210 represents a cutting-edge Wi-Fi 6 access point designed to cater to the escalating mobility demands of modern organizations. With an impressive maximum data rate of up to 1.7 Gbps, this device boasts lightning-fast data transfer speeds. This access point provides the fast, secure, dependable and uninterrupted performance essential for enterprises of all sizes.

Leveraging simultaneous dual-band, 802.11ax wireless networking solutions, the QN-I-210 harnesses the power of OFDMA technology to deliver remarkably efficient high-speed connectivity, expansive coverage and uninterrupted performance in densely populated environments.

Managed by Quantum Rudder, the QN-I-210-PLUS includes anti-theft features designed to protect assets from unauthorized usage.

KEY FEATURES

Exceptional Wi-Fi performance

Utilizing cutting-edge Wi-Fi 6 (802.11ax) technology for performance enhancement and interference mitigation, it provides extended coverage and an unmatched user experience.

Mesh technology

Effortlessly establish a self-organizing and self-repairing mesh network using Mesh technology, significantly reducing the need for costly wiring and complex setups.

Economical enterprise-level solution

The QN-I-210 provides an exceptional price-to-performance ratio by delivering an extended range at a budget-friendly cost.

Three years warranty

Three years limited liability manufacturer's warranty from the date of activation of the device.

The access point features include support for 1024 QAM, BSS coloring, Target Wake Time, Spatial Reuse which collectively contribute to a more efficient, faster and reliable wireless network, catering to the growing demands of high-bandwidth applications and providing an enhanced user experience.

| Wi-Fi | | | |
|--------------------------|--|---|--|
| Wi-Fi Standards | 5 GHz | IEEE 802.11a/n/ac/ax | |
| | 2.4 GHz | IEEE 802.11b/g/n/ax | |
| Operating Mode | Access point, Router, Mesh mode | | |
| Networking Mode | IPv4, IPv6, IPv4v6 (Dual stack), Gateway mode (NAT), Bridge mode | | |
| Maximum Data Rates | 5 GHz | 802.11ax@ 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 | 802.11ax@ 40 MHz: 573.5Mbps | |
| | | 802.11ax@ 20 MHz: 286.8 Mbps | |
| | | 802.11n@ 40 MHz: 500 Mbps | |
| | | 802.11a/g@ 20 MHz: 54 Mbps | |
| | | 802.11b@ 20 MHz: 11 Mbps | |
| Maximum Receiver | 5 GHz | -98 dBm | |
| Sensitivity | 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 | |
| | 24611 | GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3) | |
| | 2.4 GHz | 2.4-2.484GHz (ISM) | |
| Modulation Schemes | 802.11ax | BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM | |
| | 802.11ac | BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM | |
| | 802.11a/g/n | BPSK, QPSK, 16-QAM, 64-QAM | |
| | 802.11b | BPSK, QPSK, CCK | |
| Radio Chains and Spatial | 2x2:2 | Streams in 5GHz-OFDMA with MU-MIMO | |
| Streams | 2x2:2 | Streams in 2.4GHz- OFDMA with MU-MIMO | |
| Channel Size | 802.11n | 20/40 (HT) MHz | |
| | 802.11ac | 20/40/80 (VHT) MHz | |
| | 802.11ax | 20/40/80 (HE) 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 authentica | tion | | |
|-----------------------|--|---|--|--|
| | Captive portal-based a | Captive portal-based authentication | | |
| | 802.11i | | | |
| | Quantum Secure | | | |
| | Hide SSID in beacons | | | |
| WIPS/WIDS for Various | Rogue Station Detection | | | |
| Attack Signatures | Deauth attack detection, RTS and CTS abuse attack detection | | | |
| | Assoc attack detection, Fata jack tool detection | | | |
| | DHCP snooping server detection, Honeypot / Evil Twin attacks detection | | | |
| | Misconfigured AP detection | | | |
| | SSH Brute force attacks detection, Man in the middle attack's detection | | | |
| | Port scanning detection, Ad-Hoc connection detection, Password guessing attacks detection | | | |
| External DB Support | Radius, Active directory, LDAP | | | |
| Web Authentication | QN-Secure+, RADIUS, Active directory, LDAP | | | |
| User Authentication | Methods | Captive portal, QN-Secure+, 802.1x (Radius) | | |
| | Directory | QIM, Microsoft active directory, LDAP, G suite, Oauth | | |
| | Mode | Via Controller /Access points | | |
| Roaming | IEEE 802.11k (Assisted F | | | |
| U U | 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 | Auto / Manual channel selection | | | |
| Management | Speedy channel for RF optimization | | | |
| | Channel switch for RF optimization | | | |
| | ATP-Automatic Transmit Power management | | | |
| Radio Resource | Airbender RF | Dedicated mode | | |
| Monitoring | monitoring | Concurrent overlay mode | | |
| 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 | 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 | | |



| Diagnostics | Ping, Traceroute, Nslookup, Internet speed, Host discovery, Port connectivity, PCAP capture (Wired and Wireless), ARP scanner |
|---------------------|---|
| Access Control List | Force DHCP |
| | URL filtering |
| | Full Client Isolation, Deny inter-user bridging, Deny intra-VLAN traffic |
| | Bandwidth Restriction per SSID/User |
| | OS restriction |
| | L2 (MAC) filtering |
| | L3 (IP) / L4 (Port) filtering |
| | MAX clients per radio |
| | Internet freeze per SSID/User |
| Meshing | Wireless (singlehop / multihop) |
| | Wired |
| Radio Management | DTIM interval |
| | OFDM Only (Disables 802.11b) |
| | BSS Rate and management rate |
| | UAPSD (Power save) |
| | Inactivity timeout |
| Network Management | IEEE 802.11d/h (DFS) support |
| | LLDP discovery, SFlow |
| | Proxy ARP |
| | DHCP options 60 and 82 |
| | Port forwarding in router mode |
| Administration | WLAN scheduling |
| | Internet speed test |
| | Schedule reboot |
| Wi-Fi 6 Features | Target wake time |
| | 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 and 160-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 |

| Networking | | | |
|--|--|--|--|
| 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 or | dynamic per user based on RADIUS) | |
| | Port-based (Tagged, u | ntagged) | |
| Quality of Service | | | |
| Auto QoS, 802.11e, | | | |
| Manual QoS (DSCP based | , Voice, Video, BE and BK |) | |
| WMM | | | |
| 802.1p | | | |
| Performance & Capacity | , , | | |
| Peak PHY Rates | 5 GHz | 1201 Mbps (802.11ax) | |
| | 2.4 GHz | 573.5 Mbps (802.11ax) | |
| Client Capacity | Up to 256 clients per ac | ccess point | |
| SSID | Up to 16 per access poir | Up to 16 per access point (8 per Radio) | |
| RF | | | |
| Maximum Aggregate | 5 GHz | 23 dBm | |
| Transmit Power (Adjusted as per country regulations) | 2.4 GHz | 25 dBm | |
| Antenna Type | | Built-in integrated antenna for both radios | |
| Antenna Gain (Max) | 5 GHz | 3 dBi | |
| | 2.4 GHz | 3 dBi | |
| EIRP (Adjusted as per | 5 GHz | 26 dBm | |
| country regulations) | 2.4 GHz | 28 dBm | |
| Power | | | |
| Rating | 802.3 af PoF (Class 0) | /at PoE+(Fully functional with all components) | |
| | | ional with all components | |
| | | | |

| Physical Interfaces | | |
|-------------------------------------|---|--|
| Ethernet | WAN: 1 x 10/100/1000 Base-T ethernet, Auto-MDIX, RJ-45 with 802.3at PoE | |
| | LAN: 1 x 10/100/1000 Base-T ethernet, Auto-MDIX, RJ45 | |
| | 802.3az Energy Efficient Ethernet (EEE) | |
| Buttons | Restart/Reset | |
| Kensington Security Slot | Available | |
| 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 | SNMP v1, v2c, v3, Syslog | |
| monitoring | | |
| Controller DR | Supported | |
| (Disaster Recovery) Device Security | | |
| | | |
| Certificate | Locally-significant certificates using PKI | |
| Controller | Encrypted | |
| Communication | | |
| Port Access | 802.1x RADIUS supplicant | |
| Application Integration | | |
| PM WANI, | | |
| NMS Integration - ZABBIX, | PRIG Monitor, Open NMS | |
| Environmental | | |
| Operating Temperature | -20°C (-4F) ~ +65°C (+149F) | |
| Humidity | 5% ~ 100% non-condensing | |
| Standard | Plenum-rated (UL2043) | |
| Physical | | |
| Dimensions | 18.5 cm (L), 18.5 cm (W), 3.3 cm (H) | |
| Mounting Kit | Suspended ceiling mount, Ceiling mount, Wall mount | |
| Firmware Management | | |
| Cloud-managed firmware u | Ipdate | |
| Scheduled firmware and se | curity update | |
| Firmware upgrade via Acce | ss Point local GUI | |

| Certifications | |
|----------------|------|
| Regulatory | FCC |
| | BIS |
| | ETA |
| | TEC |
| Environmental | CE |
| | RoHS |

ORDERING INFORMATION

| Part Code | Description |
|-----------|--|
| QN-I-210 | Quantum Networks QN-I-210 dual-band 802.11ax indoor wireless access point, 2x2:2 |
| | streams, 2x1G Base-T Ethernet ports, 802.3 af/at PoE support. includes 3-year limited |
| | liability manufacturer's warranty for the access point. Does not include PoE injector or |
| | power adaptor. Does not include cloud controller license. |