# INDOOR ACCESS POINT QN-I-210-PLUS







Up to 1.7 Gbps / 3\* 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-PLUS effectively fulfils these needs without incurring excessive expenses.

### **PRODUCT OVERVIEW**

The QN-I-210-PLUS 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 / 3\* 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-PLUS 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.

#### Theft prevention functionality

Access Point is locked for deployment in any other network until decommissioned from the existing network.

#### The device supports high EIRP with 5dBi antenna gain.

The access point features include support for 1024 QAM, BSS coloring, Target Wake Time, Spatial Reuse, 160 MHz channel bandwidth, 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@ 160 MHz: 2400 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	802.11ax@ 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 (U-NII-1, U-NII-2A, U-NII-2C, 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
	2.4 GHz	GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3) 2.4-2.484GHz (ISM)
Modulation Schemes	802.11ax	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM
Modulation Schemes	802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
	802.11a/g/n	BPSK, QPSK, 16-QAM, 64-QAM
	802.11a/ g/ 11	BPSK, QPSK, CCK
Dadia Chains and Spatial	2x2:2	Streams in 5GHz-OFDMA with MU-MIMO
Radio Chains and Spatial Streams	2x2:2	Streams in 2.4GHz- OFDMA with MU-MIMO
Channel Size	802.11n	20/40 (HT) MHz
Channel Size		
	802.11ac 802.11ax	20/40/80 (VHT) MHz
Wireless Convity		20/40/80/160* (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)	
		A Mixed-Enterprise (802.1x/EAP-PEAP)
	WEP-64, WEP-128	,

\* Applicable only to QN-I-210-PLUS.HW2

Wireless Security	802.11 w MFP (Management Frame Protection)		
	MAC-based authentication		
	Captive portal-based authentication		
	802.11i		
	Quantum Secure		
	Hide SSID in beacons		
WIPS/WIDS for Various	Roque Station Detection	חמ	
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 attacks detection		
		n, Ad-Hoc connection detection, Password guessing attacks	
	detection	r, Ad-hoc connection detection, Fassword guessing attacks	
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 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	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
Access Control List	capture (Wired and Wireless), ARP scanner Force DHCP
Access Control List	
	URL & Application 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/		
Protocols	WAN (DHCP/Static/PPPoE)		
	Static, RIP v2, OSPF v2		
	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, untagged)		
Quality of Service			
Auto-QoS, 802.11e,			
Manual QoS (DSCP based	, Voice, Video, BE and E	3K)	
WMM			
802.1p			
Performance & Capacity	/		
Peak PHY Rates	5 GHz	1201 Mbps (802.11ax) / *2400 Mbps (802.11ax)	
	2.4 GHz	573.5 Mbps (802.11ax)	
Client Capacity	Up to 256 clients per	access point	
SSID	Up to 16 per access p	oint (8 per Radio)	
RF			
Maximum Aggregate	5 GHz	25 dBm	
Transmit Power	2.4 GHz	25 dBm	
(Adjusted as per country			
regulations) Antenna Type		Built-in integrated antenna for both radios	
Antenna Gain (Max)	5 GHz	5 dBi	
	2.4 GHz	5 dBi	
EIRP (Adjusted as per country regulations)	5 GHz	30 dBm	
	2.4 GHz	30 dBm	
Power	002 2 - <del>1</del> D - 5 (C)		
Rating	802.3 af PoE (Class 0) /at PoE+(Fully functional with all components)		
	IZV DC ZA - Fully fur	nctional with all components	
Physical Interfaces			
Ethernet	WAN: 2 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)		
**USB	Available		
Buttons	Restart/Reset		
Kensington Security Slot	Available		
LED indicators	Quick Setup, Cloud / Standalone		

\* Applicable only to QN-I-210-PLUS.HW2

\* \* The USB needs to be ordered separately.

Device Management Quantum Rudder (Controller based)           Quantum Rudder (On-premises VM)           Quantum Rudder appliances (RR-200, RR-300, RR400)           Through NMS using SNMP MIBs           Device System monitoring           Device System monitoring           Device System monitoring           Controller DR (Disaster Recovery)           Device Security           Device Security           Device Security           Device Security           Porte           Controller DR (Disaster Recovery)           Device Security           Device Security           Porte           Controller Controller Controller           Encrysted           Controller Controller           Controller Controller           Device Security           Porte Security           Porte Security           Porter Security	Management		
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           Controller DR           (Disaster Recovery)           Device System           Supported           Controller DR           (Disaster Recovery)           Device Security           Certificate         Locally-significant certificates using PKI           Controller Communication         Roczystem           Port Access         802.1x RADIUS supplicant           Application Integration         Swon-condensing           PM WANI,         Standard           NMS Integration - ZABBIX-VETG Monitor, Open NMS         Swon-condensing           Environmental         S% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware Management         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware Management         Suspended ceiling mount, Ceiling mount, Wall mount           Colded firmware usprade via Access Point local GUI         Certification           Certifications         FCC	Device Management	Standalone, Local (web UI), SSH (CLI)	
Quantum Rudder appliances (RR-200, RR-300, RR400)           Through NMS using SNMP MIBs           Local device web management           Device /System           monitoring           Controller DR           (Disaster Recovery)           Device Security           Certificate           Controller DR           (Disaster Recovery)           Device Security           Certificate           Controller OR           Markit           Ported           Controller OR           Solz IR ADIUS supplicant           Application Integration - ZABBIX- KTC Monitor, Open NMS           Environmental           Operating Temperature           Plenum-rated (UL2043)           Physical           Cloud-managed firmware uperator ballo (Cli Colling mount, Ceiling mount, Wall mount           Firmware Management		Quantum Rudder (Controller based)	
Include NMS using SNMP MIBs           Local device web management           Device /System         SNMP v1, v2c, v3, Syslog           monitoring         Supported           Controller DR (Disaster Recovery)         Supported           Device Security         Ecoally-significant certificates using PKI           Controller Communication         Encrypted           Port Access         802.1x RADIUS supplicant           Application Integration         802.1x RADIUS supplicant           PM WANI,         Supported Notice, Open NMS           Environmental         -20°C (-4F) ~ +65°C (+149F)           Phumidity         5% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         Suspended ceiling mount, Geiling mount, Wall mount           Mounting Kit         Suspended ceiling mount, Geiling mount, Wall mount           Scheduled firmware and Sec m(L), 18.5 cm (W), 3.3 cm (H)         Suspended ceiling mount, Geiling mount, Wall mount           Clud-managed firmware and Sec m(L), 18.5 cm (W), 3.3 cm (H)         Suspended ceiling mount, Geiling mount, Wall mount           Certifications         Scheduled firmware and Sec m(L), 18.5 cm (W), 3.3 cm (H)           Scheduled firmware and Sec m(L), 18.5 cm (W), 3.3 cm (H)         Suspended ceiling mount, Geiling mount, Wall mount           Certifications         Scheduled		Quantum Rudder (On-premises VM)	
Local device web management           Device /System monitoring         SNMP v1, v2c, v3, Syslog           Controller DR (Disaster Recovery)         Supported           Device Security         Supported           Certificate         Locally-significant certificates using PKI           Controller Communication         Encrypted           Port Access         802.1x RADIUS supplicant           Application Integration Port Access         802.1x RADIUS supplicant           Multify         5% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         Suspended ceiling mount, Ceiling mount, Wall mount           Mounting Kit         Suspended ceiling mount, Ceiling mount, Wall mount           Glud-managed firmware and security update         Scheduled firmware and security update           Firmware upgrade via Access Point local GUI		Quantum Rudder appliances (RR-200, RR-300, RR400)	
Device /System monitoring         SNMP vI, v2c, v3, Syslog           Controller DR (Disaster Recovery)         Supported           Device Security         Encrypted           Controller C Communication         Encrypted           Controller C Communication         Encrypted           Port Access         802.1x RADIUS supplicant           Application Integration         FOR           PM WANI,         NMS Integration - ZABBIX, PRTG Monitor, Open NMS           Environmental         -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 update ceiling mount, Ceiling mount, Wall mount           Firmware upgrade via Access         -           Scheduled firmware and security update         -           Scheduled firmware and security update         -           Firmware upgrade via Access         -           Point C         -           Cloud-managed firmware-         -           Scheduled firmware and security update <td< td=""><td></td><td>Through NMS using SNMP MIBs</td></td<>		Through NMS using SNMP MIBs	
monitoring         index           Controller DR (Disaster Recovery)         Supported           Device Security         Encally-significant certificates using PKI           Certificate         Locally-significant certificates using PKI           Controller Communication         Encrypted           Port Access         802.1x RADIUS supplicant           Application Integration         802.1x RADIUS supplicant           PM WANI,         The Monitor, Open NMS           Environmental         Operating Temperature           Operating Temperature         20°C (-4F) ~ +65°C (+149F)           Humidity         5% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         Suspended ceiling mount, Ceiling mount, Wall mount           Mounting Kit         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware Management/         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware and sec-triv update         Scheduled firmware and sec-triv update           Scheduled firmware ware second seco		Local device web management	
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Clisaster Recovery)         Controller           Certificate         Locally-significant certificates using PKI           Controller         Encrypted           Communication         802.1x RADIUS supplicant           Application Integration         802.1x RADIUS supplicant           Application Integration - ZABBIX, PRTG Monitor, Open NMS         Image: Commental           PM WANI,         V           NMS Integration - ZABBIX, PRTG Monitor, Open NMS         Image: Commental           Operating Temperature         -20°C (-4F) ~ +65°C (+149F)           Humidity         5% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware Management         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware Management         Cloud-managed firmware und security update           Scheduled firmware and security update         Sold GUI           Certifications         FCC           Regulatory         FCC           BIS         ETA           TEC         ETA           TEC         ETA           TEC         ETA           TEC         ETA           TEC         ETA			
Device Security           Certificate         Locally-significant certificates using PKI           Controller         Encrypted           Communication         B02.1x RADIUS supplicant           Port Access         802.1x RADIUS supplicant           Application Integration         PMWANI,           NMS Integration - ZABBIX, PRTG Monitor, Open NMS         Environmental           Operating Temperature         -20°C (-4F) ~ +65°C (+149F)           Humidity         5% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         Environmental           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 update           Scheduled firmware and security update         Firmware upgrade via Access Point local GUI           Certifications         FCC           BIS         ETA           TeC         BIS           Environmental         CE, -		Supported	
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Controller         Encrypted           Communication         Encrypted           Port Access         802.1x RADIUS supplicant           Application Integration         PM WANI,           NMS Integration - ZABBIX, PRTG Monitor, Open NMS         Encrypted           Environmental         -20°C (-4F) ~ +65°C (+149F)           Humidity         5% ~ 100% non-condensing           Standard         Plenum-rated (UL2043)           Physical         -20°C (-4F) ~ +65°C (+149F)           Dimensions         18.5 cm (L), 18.5 cm (W), 3.3 cm (H)           Mounting Kit         Suspended ceiling mount, Ceiling mount, Wall mount           Firmware Management	Device Security		
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Port Access802.1x RADIUS supplicantApplication IntegrationVertical SupplicantPM WANI,PM WANI,NMS Integration - ZABBIX, PRTG Monitor, Open NMSEnvironmental-20°C (-4F) ~ +65°C (+149F)Operating Temperature-20°C (-4F) ~ +65°C (+149F)Humidity5% ~ 100% non-condensingStandardPlenum-rated (UL2043)Physical		Encrypted	
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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 update           Scheduled firmware and security update         Scheduled firmware and security update           Firmware upgrade via Access Point local GUI         Certifications           Regulatory         FCC           BIS         ETA           TEC         Environmental           Certifications         CE,			
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Firmware upgrade via Access Point local GUI         Certifications         Regulatory       FCC         BIS       ETA         TEC       TEC         Environmental       CE,	Cloud-managed firmware u	ıpdate	
Certifications         Regulatory       FCC         BIS       ETA         TEC       CE,	Scheduled firmware and se	curity update	
Regulatory       FCC         BIS       ETA         TEC       Environmental         CE,       CE,	Firmware upgrade via Acce	ss Point local GUI	
BIS ETA TEC Environmental CE,	Certifications		
ETA           TEC           Environmental         CE,	Regulatory	FCC	
TEC       Environmental     CE,		BIS	
Environmental CE,		ETA	
		TEC	
RoHS	Environmental	CE,	
		RoHS	

### **ORDERING INFORMATION**

Part Code	Description
QN-I-210-PLUS	Quantum Networks QN-I-210-PLUS 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.

# **DEVICE UPGRADE**

Part Code	Description
QN-I-210P-USB	Additional USB interface based on specific requirements for USB-related functionalities.
QN-I-210P- DPOE	Additional PoE support on the LAN interface.