# INDOOR ACCESS POINT QN-I-870







Up to 5.9 Gbps Data Rate



5G Connectivity



2.4 GHz - 4x4, 5 GHz - 8x8



MU MIMO
With OFDMA



3 Years Warranty

### PRODUCT OVERVIEW

QN-I-870 is a Wi-Fi 6 Access Point offering high-performance connectivity for any organization experiencing largely growing numbers of IoT and mobility requirements. With a maximum real-world data rate of up to 5.9 Gbps, it delivers high speed, secure, reliable and seamless performance.

QN-I-870 offers a dual-band, dual-concurrent Wi-Fi 6 Access Point that supports 12 Spatial streams (8x8:8 in 5GHz, 4x4:4 in 2.4GHz). OFDMA technology provides highly efficient fast speed, wide coverage and smoother performance. Its ability to manage high-traffic indoor places like auditoriums, stadiums, conference halls and transit hubs makes it an ideal solution for data-demanding streaming Multimedia Applications like 4K video transmissions while assisting latency-sensitive voice and data applications with firm Quality-of-Service.

Easily deploy futuristic customer engagement solutions using BLE Beacon powered by a USB port.

QN-I-870 is managed by Quantum Rudder. Easily deploy futuristic customer engagement solutions using BLE Beacon powered by a USB port.

#### **KEY FEATURES**

#### Packed with the latest 802.11ax technology.

QN-I-870 is packed with all the advances of High-Efficiency supported 11ax Access Point. It supports Wi-Fi 6 features such as OFDMA, Target Wake Time, BSS Colouring, and Spatial Reuse.

#### • Phenomenal Wi-Fi performance.

Engineered for phenomenal Wi-Fi performance even in high-density environments for demanding voice and video applications. Provides improved coverage, increased capacity, and seamless performance in dense environments.

## • Build next-generation guest Wi-Fi networks.

Deploy next-generation customer service hotspots with integrated splash portal and BLE Beacons.

#### • Theft prevention functionality.

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

#### Three-years warranty.

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



Operating Mode  Networking Mode  I	5 GHz 2.4 GHz Access point, Router, Me Pv4, IPv6, IPv4v6 (Dual 5 GHz	IEEE 802.11a/n/ac/ax IEEE 802.11b/g/n/ax esh mode stack), Gateway mode(NAT), Bridge mode 802.11ax@ 160 MHz: 4804 Mbps 802.11ax@ 80 MHz: 4804 Mbps 802.11ax@ 40 MHz: 2294.1 Mbps 802.11ax@ 20 MHz: 1147.1 Mbps	
Operating Mode  Networking Mode  I	Access point, Router, Me Pv4, IPv6, IPv4v6 (Dual	esh mode stack), Gateway mode(NAT), Bridge mode 802.11ax@ 160 MHz: 4804 Mbps 802.11ax@ 80 MHz: 4804 Mbps 802.11ax@ 40 MHz: 2294.1 Mbps	
Networking Mode I	Pv4, IPv6, IPv4v6 (Dual	stack), Gateway mode(NAT), Bridge mode 802.11ax@ 160 MHz: 4804 Mbps 802.11ax@ 80 MHz: 4804 Mbps 802.11ax@ 40 MHz: 2294.1 Mbps	
3		802.11ax@ 160 MHz: 4804 Mbps 802.11ax@ 80 MHz: 4804 Mbps 802.11ax@ 40 MHz: 2294.1 Mbps	
Maximum Data Rates 5	5 GHz	802.11ax@ 80 MHz: 4804 Mbps 802.11ax@ 40 MHz: 2294.1 Mbps	
		802.11ax@ 40 MHz: 2294.1 Mbps	
		802.11ax@ 20 MHz: 1147.1 Mbps	
		802.11ac@ 80 MHz: 3466.7 Mbps	
		802.11ac@ 40 MHz: 1600 Mbps	
		802.11ac@ 20 MHz: 693.3 Mbps	
	2.4 GHz	802.11ax@ 40 MHz: 1147.1 Mbps	
		802.11ax@ 20 MHz: 573.5 Mbps	
		802.11n@ 40 MHz: 917.6 Mbps	
		802.11a/g@ 20 MHz: 54 Mbps	
		802.11b@ 20 MHz: 11 Mbps	
Maximum Receiver 5	5 GHz	-98 dBm	
Sensitivity	2.4 GHz	-93 dBm	
Supported Channels 5	5 GHz	36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2e, UNII-3 compliant) (As per country regulations)	
2	2.4 GHz	1-13 (As per country regulations)	
		Dynamic frequency selection (DFS) optimizes	
	0004	the use of available RF spectrum	
	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	
_	8x8:8	Streams in 5GHz-OFDMA with MU-MIMO	
	4x4:4	Streams in 2.4GHz- OFDMA with MU-MIMO	
_	802.11n	20/40 (HT) MHz	
	802.11ac	20/40/80 (VHT) MHz	
	802.11ax	20/40/80/160 (HE) 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)		
\	WEP-64, WEP-128		
3	802.11 w MFP (Managem	nent Frame Protection)	
N	MAC based authenticati	on	



Wireless Security	Captive portal-based a	uthentication	
,	802.11i		
	Quantum SECURE		
	Hide SSID in beacons		
WIPS/WIDS for Various	Roque 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		
	Dos attack Detection, DDos attack Detection, Misconfigured AP Detection		
	SSH Bruteforce attacks Detection, Man in the Middle attacks Detection		
	Port Scanning Detection	n, AdHoc Connection Detection, Password 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, 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	Auto / Manual channel selection		
Management	Speedy channel for performance optimization		
	Channel switch for performance 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	



Diagnostics	Ping, Traceroute, Nslookup, Internet Speed, Host Discovery, Port Connectivity, PCAP capture (Wired and Wireless), ARP Scanner	
Access Control List	Force DHCP	
	URL & Application filtering	
	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	
Meshing	Wireless (singlehop / multihop)	
3	Wired	
Radio Management	DTIM interval	
J	OFDM Only (Disables 802.11b)	
	BSS Rate and management rate	
	UAPSD (Power save)	
	Inactivity timeout	
	IEEE 802.11d/h (DFS) support	
Network Management	LLDP discovery, SFlow	
	Proxy ARP	
	DHCP options 60 and 82	
	Port forwarding in router mode	
	WLAN scheduling	
Administration	Internet speed test	
	Schedule reboot	
	Target wake time	
	BSS colouring	
Wi-Fi6 Features	Spatial reuse	
	Orthogonal frequency division multiple access (OFDMA)	
	Preamble puncturing	
	Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks	
A.I	Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit antennas	
Advance Features	Short guard interval for 20-MHz, 40-MHz, 80-MHz and 160-MHz	
	Space-time block	
Networking		
Ethernet WAN	WAN (DHCP/Static/PPPoE)	
USB WAN	USB dongle (3G/4G), Mobile tethering (USB)	
Protocols	Static, RIP v2, OSPF v2	
Tunneling	GRE, IPSec, Wire guard, OVPN	



DHCP Server	Multi WAN	Yes, Auto Failover		
WAN Security         Ethernet / USB port block management           PPP Interface         PPPE, L2TP, L2TP with IPSec           DNS         Static, Caching, Dynamic DNS           NAT         Masquerade (SNAT), Port forwarding (DNAT)           VLAN Support         802.10 (I per BSSID), Port-based (Tagged, untagged),           IoT         Supported (With BLE)           Quality of Service           Auto QoS, 802.1le,           Manual QoS (DSCP based, Voice, Video, BE and BK)           WMM         WMM           802.1p           Performance & Capacity           Peak PHY Rates         5 GHz         4804 Mbps (802.1lax)           Client Capacity         Up to 1024 clients per Access point           SSID         Up to 1024 clients per Access point           SGIP           Maximum Aggregate         5 GHz         24 dBm           Transmit Power         4 GHz         27 dBm           Antenna Type         5 GHz         24 dBm           Antenna Type         5 GHz         4 dBi           BLE         <		· · · · · · · · · · · · · · · · · · ·	OHCP MAC reservation DNS provv	
PPP Interface         PPPoE, L2TP, L2TP with IPSec           DNS         Static, Caching, Dynamic DNS           NAT         Masquerade (SNAT), Port forwarding (DNAT)           VLAN Support         802.10 (1 per BSSID), Port-based (Tagged, untagged),           Journal of Supported (With BLE)           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         4804 Mbps (802.11ax)           2.4 GHz         1147 Mbps (802.11ax)           SID         Up to 1024 clients per Access point           SSID         Up to 32 per access point (16 per Radio)           RF           Maximum Aggregate           Transmit Power         5 GHz         24 dBm           2.4 GHz         2.7 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           EIRP (Adjusted as per country regulations)         5 GHz         2 d dBi           Antenna Gain (Max)         5 GHz         2 d dBi           BLE         4 dBi         2.4 GHz           2.4				
DNS         Static, Caching, Dynamic DNS           NAT         Masquerade (SNAT), Port forwarding (DNAT)           VLAN Support         802.1Q (I per BSSID), Port-based (Tagged, untagged),           IoT         Supported (With BLE)           Quality of Service           Auto QoS, 802.1le,           Manual QoS (DSCP based, Voice, Video, BE and BK)           WMM           802.1p           Performance & Capacity           Peak PHY Rates         5 GHz 2.4 GHz 2.1147 Mbps (802.11ax)           2.4 GHz 2.4 GHz 2.147 Mbps (802.11ax)           Client Capacity         Up to 1024 clients per Access point           SSID           Up to 32 per access point (16 per Radio)           RF           Maximum Aggregate Transmit Power (Adjusted as per country regulations)         2.4 GHz 2.27 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           4. Antenna Gain (Max)         5 GHz 4 dBi           BLE         4 dBi           BLE         4 dBi           BLE         4 dBi           BLE         2.4 GHz 2.87 dBm           Radio Interfaces         Sensor radio optional           Power           Rating <th< td=""><td>,</td><td colspan="3">, , ,</td></th<>	,	, , ,		
NAT         Masquerade (SNAT), Port forwarding (DNAT)           VLAN Support         802.1Q (1 per BSSID), Port-based (Tagged, untagged),           IoT         Supported (With BLE)           Quality of Service           Auto QoS, 802.1te,           Manual QoS (DSCP based, Voice, Video, BE and BK)           WMM           802.1p           Performance & Capacity           Peak PHY Rates         5 GHz         4804 Mbps (802.1lax)           2, 4 GHz         1147 Mbps (802.1lax)           2, 4 GHz         1147 Mbps (802.1lax)           Client Capacity         Up to 1024 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         24 dBm           Antenna Type         5 GHz         4 dBi           Antenna Gain (Max)         5 GHz         2 d dBm           EIRP (Adjusted as per country regulations)         5 GHz         2 8 dBm           Country regulations)         5 GHz         2 8 dBm           Ratio Interfaces         Sensor radio optional           Power           Ratio				
VLAN Support   S02.10 (1 per BSSID), Port-based (Tagged, untagged),				
IoT				
Quality of Service           Auto QoS, 802.1le,         Manual QoS (DSCP based, Voice, Video, BE and BK)           WMM         802.1p           Performance & Capacity           Peak PHY Rates         5 GHz         4804 Mbps (802.1lax)           2.4 GHz         1147 Mbps (802.1lax)           Client Capacity         Up to 1024 clients per Access point           SSID         Up to 32 per access point (16 per Radio)           RF         Naximum Aggregate           Transmit Power         AdBi           (Adjusted as per country regulations)         2.4 GHz           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           BLE         4 dBi           BLE         4 dBi           BLE         4 dBi           BLE         4 dBi           Country regulations)         2.4 GHz         28.7 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++) - Fully functional with all components           Physical Interfaces         WAN: 1 x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/02.5G N Base -T ethernet, Auto M		7. 00 1 00 1		
Auto QoS, 802.1le,           Manual QoS (DSCP based, Voice, Video, BE and BK)           WMM           802.1p           Performance & Capacity           Peak PHY Rates         5 GHz         4804 Mbps (802.1lax)           2.4 GHz         1147 Mbps (802.1lax)           Client Capacity         Up to 1024 clients per Access point           SSID         Up to 32 per access point (16 per Radio)           RF           Maximum Aggregate           Transmit Power (Adjusted as per country regulations)         24 GHz         27 dBm           Antenna Gain (Max)         5 GHz         24 dBi           Antenna Gain (Max)         5 GHz         4 dBi           BLE         4 dBi         4 dBi           ELRP (Adjusted as per country regulations)         5 GHz         28 dBm           2.4 GHz         28.7 dBm         28.7 dBm           Radio Interfaces         802.3 at / bt (PoE++) Fully functional with all components           Power           Rating         802.3 at / bt (PoE++) Fully functional with all components           Physical Interfaces           Ethernet         WAN:1 x 10/100/1000/2.5G/		Supported (With BLE)		
Manual QoS (DSCP based, Voice, Video, BE and BK)           WMM           802.1p           Performance & Capacity           Peak PHY Rates         5 GHz         4804 Mbps (802.1lax)           Client Capacity         Up to 1024 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         24 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           BLE         4 dBi           ELRP (Adjusted as per country regulations)         5 GHz         28 dBm           Radio Interfaces         5 GHz         28 dBm           Power           Rating         802.3 at / bt (PoE++) - Fully functional with all components           Physical Interfaces           Physical Interfaces           WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE				
WMM           Performance & Capacity           Peak PHY Rates         5 GHz         4804 Mbps (802.11ax)           Client Capacity         Up to 1024 clients per Access point           SSID           Wp to 32 per access point (16 per Radio)           RF           Maximum Aggregate Transmit Power (Adjusted as per country regulations)         5 GHz         24 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           4 dBi         2.4 GHz         1.7 dBi           BLE         4 dBi           EIRP (Adjusted as per country regulations)         5 GHz         28 dBm           country regulations)         5 GHz         28 dBm           Power           Rating         802.3 at / bt (PoE++)= Fully functional with all components           Physical Interfaces           Physical Interfaces         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           Lthernet         LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE		Voice Video BF and BK		
802.lp           Performance & Capacity           Peak PHY Rates         5 GHz 2.4 GHz         4804 Mbps (802.1lax)           Client Capacity         Up to 1024 clients per Access point           SSID         Up to 32 per access point (16 per Radio)           RF           Maximum Aggregate           Transmit Power (Adjusted as per country regulations)         24 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           2.4 GHz         1.7 dBi           BLE         4 dBi           2.4 GHz         2.8 dBm           2.4 GHz         2.8.7 dBm           Radio Interfaces           Sensor radio optional           Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           Physical Interfaces           Wan: 1 x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE <tr< td=""><td></td><td>, voice, video, BE and Bit</td><td>)</td></tr<>		, voice, video, BE and Bit	)	
Performance & Capacity           Peak PHY Rates         5 GHz (2.4 GHz) (1147 Mbps (802.11ax))           Client Capacity         Up to 1024 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 (2.4 GHz)         27 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz (4 dBi)           BLE (Adjusted as per country regulations)         5 GHz (2.8 dBm)           EIRP (Adjusted as per country regulations)         2.4 GHz (2.8 dBm)           2.4 GHz (2.4 GHz) (2.8 dBm)         2.8 dBm           2.4 GHz (2.8 dBm)         2.4 GHz (2.7 dBm)           Power         802.3 at / bt (PoE++) - Fully functional with all components           Physical Interfaces         802.3 at / bt (PoE++) - Fully functional with all components           Ethernet         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           USB         1 x USB 3.0 port           Buttons         Restart/Reset				
Peak PHY Rates         5 GHz (2.4 GHz) (1147 Mbps (802.11ax))           Client Capacity         Up to 1024 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 (2.4 GHz)         27 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz (4 dBi)           EIRP (Adjusted as per country regulations)         1.7 dBi           BLE (4 dBi)         2.4 GHz (2.4 GHz)           2.4 GHz (2.4 GHz)         28 dBm           2.4 GHz (2.4 GHz)         28.7 dBm           Radio Interfaces         Sensor radio optional           Power         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Ethernet         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45	·			
Client Capacity			4804 Mbps (802 11ax)	
Client Capacity	r cak i i i i i i i i i i i i i i i i i i i		, · · · · · · · · · · · · · · · · · · ·	
SSID         Up to 32 per access point (16 per Radio)           RF           Maximum Aggregate Transmit Power (Adjusted as per country regulations)         5 GHz         24 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           EIRP (Adjusted as per country regulations)         5 GHz         28 dBm           EIRP (Adjusted as per country regulations)         2.4 GHz         28.7 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++) - Fully functional with all components           Physical Interfaces           WAN: 1x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           Ethernet         LAN: 1x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1x USB 3.0 port           Buttons         Restart/Reset			, , ,	
RF           Maximum Aggregate Transmit Power (Adjusted as per country regulations)         5 GHz         24 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           EIRP (Adjusted as per country regulations)         5 GHz         28 dBm           EIRP (Adjusted as per country regulations)         2.4 GHz         28 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Physical Interfaces           WAN: 1 x 10/100/1000/2.5G/SG N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           Buttons         Restart/Reset				
Maximum Aggregate Transmit Power (Adjusted as per country regulations)         5 GHz         27 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           Antenna Gain (Max)         8LE         4 dBi           EIRP (Adjusted as per country regulations)         5 GHz         28 dBm           EIRP (Adjusted as per country regulations)         2.4 GHz         28.7 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Physical Interfaces           WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE		Up to 32 per access point (16 per Radio)		
Transmit Power (Adjusted as per country regulations)         2.4 GHz         27 dBm           Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           Antenna Gain (Max)         2.4 GHz         1.7 dBi           BLE         4 dBi           EIRP (Adjusted as per country regulations)         28 dBm           2.4 GHz         28.7 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Physical Interfaces           WAN: 1x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1x USB 3.0 port           Buttons         Restart/Reset		5 CH7	24 dRm	
(Adjusted as per country regulations)  Antenna Type  Built-in integrated antenna for both radios and BLE  4 dBi  2.4 GHz 4 dBi  BLE 4 dBi  BLE 4 dBi  EIRP (Adjusted as per country regulations)  5 GHz 28 dBm  2.4 GHz 28.7 dBm  Radio Interfaces  Sensor radio optional  Power  Rating 802.3 at / bt (PoE++)- Fully functional with all components  12V DC 3A - Fully functional with all components  WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE  LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45  USB 1x USB 3.0 port  Buttons				
Antenna Type         Built-in integrated antenna for both radios and BLE           Antenna Gain (Max)         5 GHz         4 dBi           EIRP (Adjusted as per country regulations)         5 GHz         28 dBm           Radio Interfaces         5 GHz         28.7 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Physical Interfaces           WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset		2.4 0112	Z/ QDIII	
Antenna Gain (Max)      5 GHz			Built-in integrated antenna for both radios and BLE	
Antenna Gain (Max)         BLE         4 dBi           EIRP (Adjusted as per country regulations)         5 GHz         28 dBm           Radio Interfaces         Sensor radio optional           Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Physical Interfaces           Ethernet         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset	71.	5 GHz	4 dBi	
BLE 4 dBi  EIRP (Adjusted as per country regulations) 5 GHz 28 dBm  Radio Interfaces Sensor radio optional  Power  Rating 802.3 at / bt (PoE++)- Fully functional with all components  12V DC 3A - Fully functional with all components  Physical Interfaces  WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE  LAN: 1x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45  USB 1x USB 3.0 port  Buttons Restart/Reset	Antonno Coin (Moss)	2.4 GHz	1.7 dBi	
country regulations)  2.4 GHz  28.7 dBm  Radio Interfaces  Sensor radio optional  Power  Rating  802.3 at / bt (PoE++)- Fully functional with all components  12V DC 3A - Fully functional with all components  Physical Interfaces  WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt  PoE  LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45  USB  1 x USB 3.0 port  Buttons  Restart/Reset	Antenna Gain (Max)	BLE	4 dBi	
Radio Interfaces  Sensor radio optional  Power  Rating  802.3 at / bt (PoE++)- Fully functional with all components  12V DC 3A - Fully functional with all components  Physical Interfaces  WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE  LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45  USB  1 x USB 3.0 port  Buttons  Restart/Reset	EIRP (Adjusted as per	5 GHz	28 dBm	
Power           Rating         802.3 at / bt (PoE++)- Fully functional with all components           12V DC 3A - Fully functional with all components           Physical Interfaces           WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset	country regulations)	2.4 GHz	28.7 dBm	
Rating 802.3 at / bt (PoE++)- Fully functional with all components  12V DC 3A - Fully functional with all components  Physical Interfaces  WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE  LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45  USB 1 x USB 3.0 port  Buttons Restart/Reset	Radio Interfaces	Sensor radio optional		
12V DC 3A - Fully functional with all components	Power			
Physical Interfaces           Ethernet         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt PoE           LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset	Rating	802.3 at / bt (PoE++)-	Fully functional with all components	
Ethernet         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt           PoE         LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset		12V DC 3A - Fully funct	ional with all components	
Ethernet         WAN: 1 x 10/100/1000/2.5G/5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3bt           PoE         LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset	Physical Interfaces			
LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45           USB         1 x USB 3.0 port           Buttons         Restart/Reset				
USB 1x USB 3.0 port Buttons Restart/Reset				
Buttons Restart/Reset		LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45		
	USB	1x USB 3.0 port		
LED Indicators 2.4 GHz, 5 GHz, Power, Uplink	Buttons	Restart/Reset		
	LED Indicators	2.4 GHz, 5 GHz, Power, Uplink		



Management			
	Standalone, Local (web UI), SSH (CLI)		
Device Management	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		
Controller DR (Disaster Recovery)	Supported		
Device Security			
Certificate	Locally-significant certificates using PKI		
Controller Communication	Encrypted		
Switch Port Access	802.1x RADIUS supplicant		
Application Integration			
PM WANI,			
NMS Integration - ZABBIX	, PRTG Monitor, Open NMS		
Environmental			
Operating Temperature	-10°C (14°F) to 55°C (131°F)		
Humidity	Up to 95%, non-condensing		
Standard	Plenum-rated (UL2043)		
Physical			
Dimensions	19.5 cm (L) x 20.1 cm (W) x 3.98 cm (H)		
Weight	0.7 kg (1.54 lbs)		
Mounting kit	Ceiling mount, Wall mount		
Firmware Management			
Cloud manage Firmware U	pdate		
Scheduled Firmware Update	te		
Security Update			
Certifications			
Regulatory (USA)	FCC		
Regulatory (IN)	IPv6 Ready		
Standard	IEC-60950		
Environmental	CE		
LIMITOTITIETICAL	RoHS		



# **ORDERING INFORMATION**

Part Code	Description
	Quantum Networks QN-I-870 dual-band 802.11ax indoor wireless access point, 8x8:8
	streams in 5 GHz and 4x4:4 streams in 2.4GHz, 1x1/2.5G/5G N Base-T Ethernet port and
QN-I-870	1x1/2.5G N Base-T Ethernet ports, onboard BLE support, 802.3 bt 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.