# INDOOR ACCESS POINT QN-I-490







Up to 3.6 Gbps / 5.9 Gbps\*
Data Rate



Multi-Gig Connectivity



2.4 GHz - 4x4, 5 GHz - 4x4



MU-MIMO With OFDMA



3 Years Warranty

The QN-I-490 establishes itself as a forefront player in Wi-Fi technology by harnessing the advancements of the latest Wi-Fi 6 standard. This innovation caters to the growing demand for faster and more efficient wireless connectivity.

#### PRODUCT OVERVIEW

QN-I-490 is a Wi-Fi 6 access point offering high-performance connectivity for any organization experiencing growing IoT and mobility requirements. With a maximum real-world data rate of up to 3.6 Gbps /5.9 Gbps\*, it delivers high-speed, secure, reliable and seamless performance for any enterprise environment.

QN-I-490 provides concurrent dual-band 802.11ax wireless networking solutions. OFDMA technology offers highly efficient fast speed, excellent coverage and smooth performance in high-density areas like railway stations, hospitals, malls, public places, universities etc.

Airbender using Speedy Channel will frequently scan over the air interference (of co-channel, adjacent, noise floor) and allocate the most reliable channel to AP for the best performance.

Quickly deploy futuristic customer engagement solutions like location and asset tracking with analytics using a BLE Beacon. QN-I-490 is managed by Quantum Rudder.

#### **KEY FEATURES**

#### Enhance the performance of the device

Enable the capability to connect multiple devices simultaneously with utilizing the built-in 8-spatial streams (4x4:4 in 5GHz, 4x4:4 in 2.4GHz), along with MU-MIMO and OFDMA technology for enhanced connections.

#### **Exceptional Wi-Fi performance**

Offers an exceptional end-user experience in expansive environments. The Converged Access Point facilitates the integration of diverse networks by utilizing built-in BLE capabilities.

#### Theft prevention functionality

The access point remains restricted from deployment in any other network until it is decommissioned from the current network.

#### **Advanced Security**

Experience heightened security with the latest Wi-Fi standard, WPA3, providing enhanced protection against wireless intrusion attacks in the most secure manner.

#### **Three-year warranty**

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



Wi-Fi			
Mi Fi Chandani	5 GHz	IEEE 802.11a/n/ac/ax	
Wi-Fi Standards	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		
		802.11ax@ 160 MHz: 4804 Mbps*	
		802.11ax@ 160/80 MHz: 2402 Mbps	
		802.11ax@ 40 MHz: 1147.1 Mbps	
	5 GHz	802.11ax@ 20 MHz: 573.5 Mbps	
		802.11ac@ 80 MHz: 2166.7 Mbps	
		802.11ac@ 40 MHz: 1000 Mbps	
Maximum Data Rates		802.11ac@ 20 MHz: 481 Mbps	
		802.11ax@ 40 MHz: 1147.1 Mbps	
		802.11ax@ 20 MHz: 573.5 Mbps	
	2.4 GHz	802.11n@ 40 MHz: 1000 Mbps	
		802.11b/g@ 20 MHz: 54 Mbps	
		802.11b@ 20 MHz: 11 Mbps	
Maximum Receiver	5 GHz	-98 dBm	
Sensitivity	2.4 GHz	-93 dBm	
	5 GHz	36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2e, UNII-3	
	5 GHZ	compliant) (As per country regulations)	
Supported Channels	2.4 GHz	1-13 (As per country regulations)	
		Dynamic frequency selection (DFS) optimizes	
		the use of available RF spectrum  5.15-5.25 GHz (U-NII-1), 5.25-5.35 GHz (U-NII-2A), 5.47-5.725	
	5 GHz	GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3)	
Channel Bands		(As per country regulations)	
	2.4 GHz	2.4-2.484GHz (ISM) (As per country regulations)	
	802.11ax	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM	
Modulation Schemes	802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	
Modulation Schemes	802.11a/g/n	BPSK, QPSK, 16-QAM, 64-QAM	
	802.11b	BPSK, QPSK, CCK	
Spatial Streams	4x4:4	Streams in 5GHz-OFDMA with MU-MIMO	
Spatial Streams	4x4:4	Streams in 2.4GHz- OFDMA with MU-MIMO	
	802.11n	20/40 (HT) MHz	
<b>Channel Size</b>	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)		
Wireless Security	WPA3-WPA2 Mixed-AES personal, Open		
	WPA2-TKIP/AES personal, Open		
	WPA2-Enterprise (802.1x/EAP-PEAP, EAP-TLS, EAP-TTLS)		



	WPA personal WPA Mix	ked-Enterprise (802.1x/EAP-PEAP)	
Wireless Security	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 Cumpart		LDAD TACACCI	
External DB Support Web Authentication	Radius, Active directory  QN-Secure+, RADIUS, A		
web Authentication			
	Methods	Captive portal, QN-Secure+, 802.1x (Radius)	
User Authentication	Directory	QIM, Microsoft active directory, LDAP, G suite, Oauth	
	Mode	Via Controller / Access points	
	IEEE 802.11k (Assisted F	Roaming)	
	IEEE 802.11v (BSS Trans	sition Management)	
Roaming	IEEE 802.11r (Fast BSS	Transition (FT))	
Roalling	Pairwise Master Key (PMK) caching		
	Opportunistic key caching		
	Seamless roaming for captive portal users		
	Auto / Manual channel selection		
Channel / Tx Power	Speedy channel for performance optimization		
Management	Channel switch for performance optimization		
	ATP-Automatic Transmit Power management		
	Band steering		
Client Management	Band balancing		
	Airtime fairness		
Guest Management	WISPr – Captive portal, HotSpot 2.0		
	Customized Template	Yes (User define, Theme based)	
Native Guest Portal	Authentication	Click-through, Access code, Self-sign-up (SMS, Email),	
Mative Ouest Fortal	Method	Sponsor based (Domain-based, Individual Email ID based)	
	Guest Profile Support	Pass validity, Bandwidth restriction, Quota based	
	Force DHCP		
	URL & Application filtering / Whitelisting		
	Full Client Isolation, Deny inter-user bridging, Deny intra-VLAN traffic		
	Bandwidth Restriction per SSID/User		
Access Control List	OS restriction		
	L2 (MAC) filtering		
	L3 (IP) / L4 (Port) filtering		
	MAX clients per radio		
	Internet freeze per SSID / user		



Random MAC Detection	Access Control List	Session control
Wired  Point to Point Point to MultiPoint DTIM interval OFDM Only (Disables 802.11b) BSS Rate and management rate UAPSD (Power save) Inactivity timeout Radio mode control RTS/CTS Threshold IEEE 802.11d/h (DFS) support LLDP discovery, SFlow Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode WLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing Advance Features  Advance Features Short quard 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	Access Control List	Random MAC Detection
Wired   Point to Point   Point to Point   Point to Point to MultiPoint   Point MultiPoin	Meshing	Wireless (singlehop / multihop)
Point to MultiPoint  DTIM interval OFDM Only (Disables 802.11b) BSS Rate and management rate UAPSD (Power save) Inactivity timeout Radio mode control RTS/CTS Threshold  REE 802.11d/h (DFS) support LLDP discovery, SFlow Proxy ARP DHC poptions 43, 60 and 82 Port forwarding in router mode  MLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing Advance Features Advance Features Point to MultiPoint DTM interval OFDM ONLY AN ADMILY AND ADMI	Meshing	Wired
Point to MultiPoint	WDC	Point to Point
Radio Management    DFDM Only (Disables 802.11b)     BSS Rate and management rate	WDS	Point to MultiPoint
Radio Management  BSS Rate and management rate UAPSD (Power save) Inactivity timeout Radio mode control RTS/CTS Threshold IEEE 802.11d/h (DFS) support LLDP discovery, SFlow Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode  MUAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing Advance Features  Advance Features  BSS Rate and management rate UAPSD (Power save) Inactivity timeout Radio mode control RTS/CTS Threshold IEEE 802.11d/h (DFS) support LLDP discovery, SFlow Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode WLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing 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		DTIM interval
Network Management   Hadio mode control   RTS/CTS Threshold   HEEE 802.Hd/h (DFS) support   HLDP discovery, SFlow   Proxy ARP   DHCP options 43, 60 and 82   Port forwarding in router mode   Machanistration		OFDM Only (Disables 802.11b)
Inactivity timeout Radio mode control RTS/CTS Threshold  REE 802.11d/h (DFS) support LLDP discovery, SFlow Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode  Administration  MAC Nuthentication  WI-Fi 6 Features  Wi-Fi 6 Features  Advance Features  Advance Features  POARD Radio Mac Authentication control metals and the present and the result of 20-MHz, 40-MHz, 80-MHz and 160-MHz Space-time block coding (STBC) for high-efficiency error correction and increased throughput  Presented Time Authorized and increased throughput  Proxy ARP DHCP options 43, 60 and 82 Ports day Age Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode  WLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  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	<b>D</b> 1° 24	BSS Rate and management rate
Radio mode control RTS/CTS Threshold  IEEE 802.11d/h (DFS) support  LLDP discovery, SFlow Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode  MLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization)  MAC Authentication Dynamic VLAN Target wake time BSS colouring BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  Advance Features  Advance Features  Radio mode control RTS/CTS Threshold REEE 802.11d/h (DFS) support LDP discovery, SFlow Proxy ARP DHCP options 43, 60 and 82 Port forwarding in router mode WLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Praget wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing 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	Radio Management	UAPSD (Power save)
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IEEE 802.11d/h (DFS) support   LLDP discovery, SFlow     Proxy ARP     DHCP options 43, 60 and 82     Port forwarding in router mode     MLAN scheduling     Internet speed test     Schedule reboot     CoA (Change of Authorization)     MAC Authentication     Dynamic VLAN     Target wake time     BSS colouring     Spatial reuse     Orthogonal frequency division multiple access (OFDMA)     Preamble puncturing     Advance Features     Advance Gellular 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		Radio mode control
LLDP discovery, SFlow		RTS/CTS Threshold
LLDP discovery, SFlow Proxy ARP  DHCP options 43, 60 and 82 Port forwarding in router mode  WLAN scheduling Internet speed test Schedule reboot  CoA (Change of Authorization)  MAC Authentication Dynamic VLAN  Target wake time BSS colouring  Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  Advance Features  Advance Features  LUDP discovery, SFlow Porty ARP  DHCP options 43, 60 and 82 Port forwarding in router mode WLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization)  MAC Authentication Dynamic VLAN  Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing 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	Notwork Management	IEEE 802.11d/h (DFS) support
DHCP options 43, 60 and 82 Port forwarding in router mode  WLAN scheduling Internet speed test Schedule reboot CoA (Change of Authorization) MAC Authentication Dynamic VLAN Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing Advance 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	Network Management	LLDP discovery, SFlow
Port forwarding in router mode  WLAN scheduling Internet speed test Schedule reboot  CoA (Change of Authorization)  MAC Authentication Dynamic VLAN  Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  Advance Features  Advance Features  Port does not 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		Proxy ARP
Administration    MLAN scheduling     Internet speed test     Schedule reboot     CoA (Change of Authorization)     MAC Authentication     Dynamic VLAN     Target wake time     BSS colouring     Spatial reuse     Orthogonal frequency division multiple access (OFDMA)     Preamble puncturing     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		DHCP options 43, 60 and 82
Internet speed test Schedule reboot  CoA (Change of Authorization)  MAC Authentication Dynamic VLAN  Target wake time BSS colouring Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  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		Port forwarding in router mode
Schedule reboot  CoA (Change of Authorization)  MAC Authentication  Dynamic VLAN  Target wake time  BSS colouring  Spatial reuse  Orthogonal frequency division multiple access (OFDMA)  Preamble puncturing  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	Administration	WLAN scheduling
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MAC Authentication  Dynamic VLAN  Target wake time  BSS colouring  Spatial reuse  Orthogonal frequency division multiple access (OFDMA)  Preamble puncturing  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		Schedule reboot
Dynamic VLAN  Target wake time  BSS colouring  Spatial reuse Orthogonal frequency division multiple access (OFDMA)  Preamble puncturing  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		CoA (Change of Authorization)
Target wake time  BSS colouring  Spatial reuse  Orthogonal frequency division multiple access (OFDMA)  Preamble puncturing  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	Radius Integration	MAC Authentication
BSS colouring  Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  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 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		Dynamic VLAN
Spatial reuse Orthogonal frequency division multiple access (OFDMA) Preamble puncturing  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		Target wake time
Orthogonal frequency division multiple access (OFDMA)  Preamble puncturing  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		BSS colouring
Preamble puncturing  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	Wi-Fi 6 Features	Spatial reuse
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		Orthogonal frequency division multiple access (OFDMA)
Cyclic delay/shift diversity (CDD/CSD) to enable the use of multiple transmit antennas  Short guard interval for 20-MHz, 40-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		Preamble puncturing
Advance Features  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		Advanced Cellular Coexistence (ACC) minimizes interference from cellular networks
Space-time block coding (STBC) for increased range and improved reception  Low-density parity check (LDPC) for high-efficiency error correction and increased throughput		
Space-time block coding (STBC) for increased range and improved reception  Low-density parity check (LDPC) for high-efficiency error correction and increased throughput		Short guard interval for 20-MHz, 40-MHz, 80-MHz and 160-MHz
throughput	Advance Features	Space-time block coding (STBC) for increased range and improved reception



HawkEye – Rogue/WIDS	/ WIPS / NIPS	
	Rogue SSID	
	MAC Spoofing	
Rogue AP	SSID Spoofing	
	Honeypot / Evil twin attack	
	Null Probe request attack	
	RTS/CTS Abuse attack	
	Auth attack	
	Assoc attack	
	Fata jack tool attack	
	Man in the Middle attack	
WIDS	DHCP snooping server detection	
	AP flood attack	
	Block ACK DoS attack	
	Power saves frame attack	
	Malformed frame-Auth/Assoc attack	
	Deauth attack	
	Disassoc attack	
WIDS/WIPS	Omerta attack	
	Password guessing attack	
	Ad-Hoc connection	
	Dos attack	
NIPS	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		
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)	



	ICMD2		
IGMP	IGMP v2		
	IGMP Snooping		
Supported Features	Safe Search, ALG Cont		
	UPNP, DMZ Host, Adbl	ock	
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	4804 Mbps (802.11ax)* / 2402 Mbps (802.11ax)	
reak rn i kates	2.4 GHz	1147.1 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	5 GHz	24 dBm	
Transmit Power			
(Adjusted as per country regulations)	2.4 GHz	27 dBm	
country regulations)			
Antenna Type	Built-in integrated ante	Built-in integrated antenna for both radios and BLE	
Antenna Gain (Max)	5 GHz	7.6 dBi	
, and the control of	2.4 GHz	5.5 dBi	
	BLE	5.5 dBi	
EIRP (Adjusted as per	5 GHz	31.6 dBm	
country regulations)	2.4 GHz	32.5 dBm	
-	2.4 0112	32.3 dBiii	
Power	00000 1 (11 (7) 5)		
Rating	802.3 at / bt (PoE++) - Fully functional with all components		
	12V DC 3A - Fully functional with all components		
Physical Interfaces	WANT 4 40 46 5 45 5 5	0.50 N.B.	
Eth awart	WAN: 1 x 10/100/1000/2.5G N Base -T Ethernet, Auto-MDIX, RJ-45 with 802.3at PoE		
Ethernet	LAN: 1 x 10/100/1000/2.5G N Base -T Ethernet, Auto-MDIX, RJ-45		
Console	1x RJ-45 Ethernet		
USB			
Buttons	1x USB 2.0 port		
	Restart/Reset		
LED Indicators	Power, 2.4 GHz, 5 GHz, Uplink		



Management		
	Standalone, Local (web UI), SSH (CLI)	
Davies Management	Quantum Rudder (Controller based)	
	Quantum Rudder (On-premises VM)	
Device Management	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	
	Application Statistics	
Traffic Monitoring	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	
Environmental		
Operating temperature	0°C (32°F) to 50°C (122°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	Suspended ceiling mount, Ceiling mount, Wall mount	
Firmware Management		
Cloud-managed firmware u	pdate	
Scheduled firmware and security update		
Firmware upgrade via Access Point local GUI		



Certification and Compliances			
Certifications	Parameter	Standards	
Regulatory (USA)	FCC		
	BIS	IS-13252, IEC-60950	
	ETA (WPC)	NABL 2.4, NABL 5	
	IEC-60215		
Regulatory (IN)	TEC (ER)	EMI/EMC (IEC / EN-61000* & CISPR 32), Safety (IS-13252 & IEC-60950), Radio, Technical (IPv4 & IPv6)	
	IPv6 Ready		
Industry Association	Wi-Fi Alliance		
<b>Environmental Compliances</b>	CE, RoHS		

### **ORDERING INFORMATION**

Part Code	Description
QN-I-490	Quantum Networks QN-I-490 dual-band 802.11ax indoor wireless access point, 4x4:4
	streams, 2x1/2.5G Base-T Ethernet ports, 1x USB port, 802.3 at PoE support. Includes
	onboard BLE support and 3-year limited liability manufacturer's warranty for the access
	point. PoE injector, power adapter and cloud controller license are not included.

## **DEVICE UPGRADE\***

Part Number	Description
	Quantum Networks QN-I-490-PF dual-band 802.11ax indoor wireless access point,
QN-I-490-PF	featuring 4x4:4 streams, 2x 1/2.5G Base-T Ethernet ports, 1x 10G Base-X SFP port, 1x
QN-1-430-FF	USB port, and 1x RJ45 console. Includes onboard BLE support and 802.3bt PoE support.
	Comes with a 3-year limited liability manufacturer's warranty for the access point. PoE
	injector, power adapter and cloud controller license are not included.
	Quantum Networks QN-I-490-PE dual-band 802.11ax indoor wireless access point,
ON 1 400 PE	featuring 4x4:4 streams, 1x 1/2.5/5/10G Base-T Ethernet port, 2x 1/2.5G Base-T Ethernet
QN-I-490-PE	ports, 1x USB port, and 1x RJ45 console. Includes onboard BLE support and 802.3bt PoE
	support. Comes with a 3-year limited liability manufacturer's warranty for the access
	point. PoE injector, power adapter and cloud controller license are not included.
	The add-on dedicated Wi-Fi radio module (QN-MR-25) supports dual-band, making it
QN-MR-25	ideal for applications such as WIPS/WIDS sensors, improving RRM decisions through
	continuous spectrum visibility, and enhancing network assurance and troubleshooting.
	This module supports hardware QN-I-490-PF and QN-I-490-PE and must be ordered
	with them.

<sup>\*</sup>Applicable for model QN-I-490-PF and QN-I-490-PE