OUTDOOR ACCESS POINT QN-0-240







Up to 3 Gbps Data Rate



2.5 GbE Connectivity



2.4 GHz - 2x2, 5 GHz - 2x2





PRODUCT OVERVIEW

QN-O-240 built-in with a smart antenna and MU-MIMO technology provides high data-rates even in high-density and high-interference environments.

QN-O-240 provides concurrent dual-band, 802.11ax wireless networking solutions. OFDMA technology provides highly efficient fast speed, awesome coverage and smooth performance in high-density areas like railway stations, hospitals, malls, public places, universities etc.

QN-O-240 is manageable through a centralized platform and supported by Quantum Rudder. QN-O-240 can also be deployed as a standalone Access Point.

Each Access Point comes with a one-year limited liability manufacturer's warranty from the date of activation and theft prevention functionality to protect assets from misuse.

KEY FEATURES

Delivering high-performance outdoor Wi-Fi access.

Deploy secure and reliable outdoor hotspots at Transportation hubs, Stadiums, Smart cities and Rural Wi-Fi setups.

• 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.

• Cost-Efficient Connectivity.

Reduces operational costs and the expense of additional hardware required for deployment by service providers/telcos. SFP port provides high-speed fiber backhaul without any additional hardware.

• Theft prevention functionality.

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

• Industrial-grade IP67 enclosure.

IP67 rating can withstand challenging environments with extreme temperatures and dusty environments.

• Easy to manage.

Easily manage Wi-Fi infrastructure through the feature-rich Quantum Rudder management console.



Wn-Fi Standards 5 GHz IEEE 802.la/n/nac/ax Operating Mode Access point, Router, Mesh mode Networking Mode IPv4, IPv6, IPv4v6 (Dual stack), Gateway mode (NAT), Bridge mode Networking Mode IPv4, IPv6, IPv4v6 (Dual stack), Gateway mode (NAT), Bridge mode Networking Mode IPv4, IPv6, IPv4v6 (Dual stack), Gateway mode (NAT), Bridge mode Networking Mode 802.llace 80 MHz: 240.0 Mbps 802.llace 80 MHz: 600 Mbps 802.llace 80 MHz: 260.0 Mbps 802.llace 90 MHz: 286.8 Mbps 802.llace 90 MHz: 240.5 Mbps 802.llace 90 MHz: 240.5 Mbps 802.llace 90 MHz: 240.5 Mbps 802.llace 90 MHz: 240.5 Mbps 802.llace 90 MHz: 240.5 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llac 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llac 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llac 90 MHz: 500 Mbps 802.llace 90 MHz: 500 Mbps 802.llac 90 MH	Wi-Fi			
	W: F: Ctondordo	5 GHz	IEEE 802.11a/n/ac/ax	
Networking Mode IPv4, IPv6, IPv4v6 (Dual stack), Gateway mode(NAT), Bridge mode	WI-FI Standards	2.4 GHz	IEEE 802.11b/g/n/ax	
B02.1lax@ 80 MHz:2400 Mbps	Operating Mode	Access point, Router, Mesh mode		
SGHz	Networking Mode	IPv4, IPv6, IPv4v6 (Du	al stack), Gateway mode(NAT), Bridge mode	
S GHz			802.11ax@ 160 MHz:2400 Mbps	
Maximum Data Rates 802.11ac@ 20 MHz: 286.8 Mbps Maximum Data Rates 802.11ac@ 40 MHz: 500 Mbps 802.11ac@ 20 MHz: 240.5 Mbps 802.11ac@ 20 MHz: 240.5 Mbps 802.11ac@ 20 MHz: 240.6 Mbps 802.11ac@ 20 MHz: 246.8 Mbps 802.11ac@ 20 MHz: 266.8 Mbps 802.11ac@ 20 MHz: 500 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 24 GHz 93 dBm Supported Channels 5 GHz -93 dBm Supported Channels 5 GHz -93 dBm Supported Channels 5 GHz -93 dBm 802.11a 99 adm 165 (UNII-1, UNII-2, UNII-2, UNII-3, UNII-2, UNII-3, UNII-3, UNII-3, UNII-3, UNII-2, UNII-3, UNI			802.11ax@ 80 MHz:1201 Mbps	
Maximum Data Rates 802.11ac@ 80 MHz: 1083.3 Mbps Maximum Data Rates 802.11ac@ 20 MHz: 240.5 Mbps 802.11ac@ 20 MHz: 240.5 Mbps 802.11ac@ 20 MHz: 260.0 Mbps 802.11ac@ 20 MHz: 260 Mbps 802.11ac@ 20 MHz: 500 Mbps 802.11a/g@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 11 Mbps 802.11b@ 20 MHz: 11 Mbps Maximum Receiver 5 GHz -93 dBm Sensitivity 5 GHz -93 dBm 802.11a (Span this per country regulations) -90 dBm 9 Dynamic frequency selection (DFS) optimizes the use of available RF spectrum 802.11a 802.11a 802.11a BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM 802.11a 892.11a 802.11b BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM </td <td></td> <td></td> <td>802.11ax@ 40 MHz: 600 Mbps</td>			802.11ax@ 40 MHz: 600 Mbps	
Maximum Data Rates 802.11ac@ 40 MHz: 500 Mbps 802.11ac@ 20 MHz: 240.5 Mbps 802.11ac@ 20 MHz: 600 Mbps 802.11ac@ 20 MHz: 286.8 Mbps 802.11ac@ 20 MHz: 54 Mbps 802.11ac@ 20 MHz: 54 Mbps 802.11bc@ 20 MHz: 54 Mbps 802.11bc@ 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 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 802.11ac BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM 802.11ac 802.11ac BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 802.11b BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM		5 GHz	802.11ax@ 20 MHz: 286.8 Mbps	
Maximum Data Rates 802.11ac@ 20 MHz: 240.5 Mbps 802.11ac@ 20 MHz: 266.0 Mbps 802.11ac@ 20 MHz: 286.8 Mbps 802.11ac@ 20 MHz: 54 Mbps 802.11a/g@ 20 MHz: 54 Mbps 802.11b@ 20 MHz: 14 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 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 802.11ac BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM Modulation Schemes 802.11ac BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM 802.11a/g/n BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 802.11b BPSK,			802.11ac@ 80 MHz: 1083.3 Mbps	
802.11acg 20 MHz: 240.5 Mbps	Marian Data Data		802.11ac@ 40 MHz: 500 Mbps	
2.4 GHz	Maximum Data Rates		802.11ac@ 20 MHz: 240.5 Mbps	
2.4 GHz			802.11ax@ 40 MHz: 600 Mbps	
802.11a/g@ 20 MHz: 54 Mbps			802.11ax@ 20 MHz: 286.8 Mbps	
802.11b@ 20 MHz: 11 Mbps		2.4 GHz	802.11n@ 40 MHz: 500 Mbps	
Maximum Receiver Sensitivity 5 GHz -98 dBm Sensitivity 2.4 GHz -93 dBm 36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2e, UNII-3 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 Modulation Schemes 802.11ax BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM 802.11ac BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 802.11b BPSK, QPSK, 16-QAM, 64-QAM 802.11b BPSK, QPSK, 16-QAM, 64-QA			802.11a/g@ 20 MHz: 54 Mbps	
Sensitivity 2.4 GHz			802.11b@ 20 MHz: 11 Mbps	
S GHz 36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2 ompliant) (As per country regulations)	Maximum Receiver	5 GHz	-98 dBm	
S GHz compliant) (As per country regulations)	Sensitivity	2.4 GHz	-93 dBm	
Compliant) (As per country regulations) 2.4 GHz		5 GHz		
Dynamic frequency selection (DFS) optimizes the use of available RF spectrum				
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, 16-QAM, 64-QAM 802.11b BPSK, QPSK, CCK Radio Chains and Spatial Streams 2x2:2 Streams in 5GHz-OFDMA with MU-MIMO 802.11n 20/40 (HT) MHz 802.11ac 20/40/80 (VHT) MHz 802.11ac 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, MAC-based authentication	Supported Channels	2.4 GHz	, , , , , , , , , , , , , , , , , , , ,	
BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM				
Modulation Schemes 802.11a/g/n BPSK, QPSK, 16-QAM, 64-QAM 802.11b BPSK, QPSK, CCK Radio Chains and Spatial Streams 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 802.11ax 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, MAC-based authentication		802.11ax	·	
802.11a/g/n BPSK, QPSK, 16-QAM, 64-QAM 802.11b BPSK, QPSK, CCK Radio Chains and Spatial Streams 2x2:2 Streams in 5GHz-OFDMA with MU-MIMO 2x2:2 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, MAC-based authentication		802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	
Radio Chains and Spatial Streams 2x2:2 Streams in 5GHz-OFDMA with MU-MIMO Streams 2x2:2 Streams in 2.4GHz- OFDMA with MU-MIMO Channel Size 802.1ln 20/40 (HT) MHz 802.1lac 20/40/80 (VHT) MHz 802.1lax 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, MAC-based authentication	Modulation Schemes	802.11a/g/n	BPSK, QPSK, 16-QAM, 64-QAM	
Streams 2x2:2 Streams in 2.4GHz- OFDMA with MU-MIMO 802.1ln 20/40 (HT) MHz 802.1lac 20/40/80 (VHT) MHz 802.1lax 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, MAC-based authentication		, ,	BPSK, QPSK, CCK	
Streams 2x2:2 Streams in 2.4GHz- OFDMA with MU-MIMO R02.11n 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, MAC-based authentication	Radio Chains and Spatial	2x2:2	Streams in 5GHz-OFDMA with MU-MIMO	
Channel Size 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, MAC-based authentication	· ·	2x2:2	Streams in 2.4GHz- OFDMA with MU-MIMO	
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, MAC-based authentication		802.11n	20/40 (HT) 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, MAC-based authentication	Channel Size	802.11ac	20/40/80 (VHT) MHz	
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, MAC-based authentication		802.11ax	20/40/80/160 (HE) MHz	
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, MAC-based authentication		WPA3-AES personal, E	Enhanced open (OWE)	
WPA2-TKIP/AES personal, Open Wireless Security WPA2-Enterprise (802.1x/EAP-PEAP, EAP-TLS, EAP-TTLS) WPA personal, WPA Mixed-Enterprise (802.1x/EAP-PEAP) WEP-64, WEP-128, MAC-based authentication		WPA3-Enterprise (802.1x/EAP-TLS, EAP-TTLS)		
Wireless Security WPA2-Enterprise (802.1x/EAP-PEAP, EAP-TLS, EAP-TTLS) WPA personal, WPA Mixed-Enterprise (802.1x/EAP-PEAP) WEP-64, WEP-128, MAC-based authentication	Wireless Security	WPA3-WPA2 Mixed- AES personal, Open		
WPA personal, WPA Mixed-Enterprise (802.1x/EAP-PEAP) WEP-64, WEP-128, MAC-based authentication				
WEP-64, WEP-128, MAC-based authentication				
WEP-64, WEP-128, MAC-based authentication				
MAC-based authentication				
Captive portal-based authentication				
		Captive portal-based a	authentication	



	802.11i		
Wireless Security	Quantum SECURE		
	Hide SSID in beacons		
	Rogue Station Detection		
	Deauth attack detection	n, RTS and CTS abuse attack detection	
	Assoc attack detection,	Fata jack tool detection,	
WIPS/WIDS for Various	DHCP snooping server	detection, Honeypot / Evil Twin attacks detection	
Attack Signatures	Misconfigured AP detection		
	SSH Brute force attacks	detection, Man in the middle attack's detection	
	Port scanning detection detection	, Ad-Hoc connection detection, Password guessing attacks	
External DB Support	Radius, Active directory	, LDAP	
Web Authentication	QN-Secure+, RADIUS, A	Active directory, LDAP	
	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 Roaming)		
	IEEE 802.11v (BSS Transition Management)		
Dooming	IEEE 802.11r (Fast BSS Transition (FT))		
Roaming	Pairwise Master Key (PMK) caching		
	Opportunistic key caching		
	Seamless roaming for ca	aptive portal users	
	Auto / Manual channel selection		
Channel / Tx Power	Speedy channel for perf	ormance 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		
	Customizad Tamanlata	Yes (User define, Theme-based)	
	Customized Template	, ,	
Native Guest Portal	Authentication Method	Click-through, Access code, Self-sign-up (SMS, Email), Sponsor based (Domain-based, Individual Email ID based)	



Diagnostics	Ping, Traceroute, Nslookup, Internet speed, Host discovery, Port connectivity, PCAP capture (Wired and Wireless), ARP scanner	
	Force DHCP	
	URL & Application filtering	
	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	
	Wireless (singlehop / multihop)	
Meshing	Wired	
	DTIM interval	
	OFDM Only (Disables 802.11b)	
Radio Management	BSS Rate and management rate	
	UAPSD (Power save)	
	Inactivity timeout	
NI a to consult. Manage and a section	IEEE 802.11d/h (DFS) support	
Network Management	LLDP discovery, SFlow	
	Proxy ARP	
	DHCP options 60 and 82	
	Port forwarding in router mode	
Administration	WLAN scheduling	
	Internet speed test	
	Schedule reboot	
	Target wake time	
	BSS colouring	
Wi-Fi 6 Features	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	
Advance Features	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, untagged)
Quality of Service	
Auto-OoS 802 11a	

Auto-QoS, 802.11e,

Manual QoS (DSCP based, Voice, Video, BE and BK)

WMM

802.1p

		^ ^	• •
יים עם	ormance (x, (a)	つつにはてい
	Of Illalice	u va	Jacity

Peak PHY Rates	5 GHz	2400 Mbps (802.11ax)
reak rn r Rales	2.4 GHz	600 Mbps (802.11ax)
Client Capacity	Up to 512 clients per Ac	cess point
SSID	Up to 16 per access point (8 per Radio)	

RF		QN-0-240	QN-0-240-N			
			QN-ANT-5-5DB / QN-ANT-2-5DB	QN-ANT-5-8DB / QN-ANT-2-8DB	QN-ANT-5-12DB/ QN-ANT-2-12DB	QN-ANT-5-15DB/ QN-ANT-2-15DB
Maximum Aggregate	5 GHz	26 dBm	26 dBm	24 dBm	24 dBm	24 dBm
Transmit Power (As per country regulations)	2.4 GHz	27 dBm	27 dBm	25 dBm	25 dBm	25 dBm
Antenna Gain (Max)	5 GHz	6 dBi	5 dBi	8 dBi	12 dBi	15 dBi
	2.4 GHz	6 dBi	5 dBi	8 dBi	12 dBi	15 dBi
EIRP (As per country	5 GHz	32 dBm	31 dBm	32 dBm	36 dBm	39 dBm
regulations)	2.4 GHz	33 dBm	32 dBm	33 dBm	37 dBm	40dBm
Antenna Type		Built-in integrated antenna for both radios	External anten	nas connectors		



Rating R	Power		
Ethernet 802.3at PoE 802.3at PoE 802.3at PoE 802.3at PoE 802.3at PoE 802.3bt PoE 802.3at PoE 802.3bt P	Rating	802.3 af PoE / at PoE+ (Class 4) (Fully functional with all components)	
Ethernet 802.3at PoE 802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE) Fiber WAN/LAN: 1x1G Base-X (SX / LX) SFP port Buttons Restart/Reset LED Indicators Power, 2.4 GHz, 5 GHz, Uplink Management Management Device Management Device Management Device Management Standalone, Local (web UI), SSH (CLI) Quantum Rudder (Controller based) Quantum Rudder (Controller based) Quantum Rudder (On-premises VM) Quantum Rudder (On-premises VM) Quantum Rudder (On-premises VM) Quantum Rudder (On-premises VM) Quantum Rudder (SR-200, RR-300, RR400) Through NMS using SNMP MIBs Local device web management Device Scurity SMMP VI, v2c, v3, Syslog Device Security Device Security <t< td=""><td>Physical Interfaces</td><td></td></t<>	Physical Interfaces		
Fiber WAN/LAN: 1x1G Base-X (SX / LX) SFP port	Ethernet		
Buttons Restart/Reset LED Indicators Power, 2.4 GHz, 5 GHz, Uplink Management Standalone, Local (web UI), SSH (CLI) Quantum Rudder (Controller based) Quantum Rudder (On-premises VM) Quantum Rudder appliances (RR-200, RR-300, RR400) Through NMS using SNMP MIBs Local device web management Device /System Monitoring SNMP v1, v2c, v3, Syslog Controller DR (Disaster Recovery) Device Security Certificate Locally-significant certificates using PKI Controller Communication Encrypted Sont Acces 802.1x RADIUS supplicant Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature - 40°C (-40F) ~ +70°C (+158F) Humidity Smylor (160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pele mount Cloud-managed firmware update Scheduled firmware and security update		802.3bz specifications, 802.3az Energy Efficient Ethernet (EEE)	
Device Management Standalone, Local (web UI), SSH (CLI) Quantum Rudder (Controller based) Quantum Rudder (Controller based) 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 Local device web management SNMP vI, v2c, v3, Syslog Supported Suppo	Fiber	WAN/LAN: 1 x 1 G Base-X (SX / LX) SFP port	
Management Standalone, Local (web UI), SSH (CLI) Quantum Rudder (Controller based) Quantum Rudder (On-premises VM) 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 vI, v2c, v3, Syslog Controller DR Supported Costage Security Supported Certificate Locally-significant certificates using PKI Controller Communication Encrypted Communication 802.1x RADIUS supplicant Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard 1P67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) <t< td=""><td>Buttons</td><td>Restart/Reset</td></t<>	Buttons	Restart/Reset	
Device Management Device Management Device Management Device / System Monitoring Controller observery Controller observery Controller Observery Controller Observery Controller Observery Controller Observery Controller Co	LED Indicators	Power, 2.4 GHz, 5 GHz, Uplink	
Device Management Pevice Management Auantum Rudder (On-premises VM) Quantum Rudder appliances (RR-200, RR-300, RR400) Through NMS using SNMP MIBS Local device web management SNMP v1, v2c, v3, Syslog Controller DR (Disaster Recovery) Pevice Security Certificate Locally-significant certificates using PKI Controller Communication Port Access Bo2.ix RADIUS supplicant Application Integration NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity S% ~ 100% non-condensing Wind Resistance Standard 1P67 Physical Dimensions 2.3.9cm(L), 19.5cm(W), 8.3cm(H) Weight Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Management		
Through NMS using SNMP MIBs Local device web management Device / System Monitoring SNMP v1, v2c, v3, Syslog Controller DR (Disaster Recovery) 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 -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard 1967 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Device Management	Quantum Rudder (Controller based) Quantum Rudder (On-premises VM)	
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 Communication Port Access 802.1x RADIUS supplicant Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update			
Monitoring SNMP VI, V2C, V3, Syslog Controller DR (Disaster Recovery) Device Security Certificate Locally-significant certificates using PKI Controller Encrypted Communication Encrypted Port Access 802.1x RADIUS supplicant Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard 1P67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Device /System		
Cossister Recovery Supported	, -	SNMP v1, v2c, v3, Syslog	
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 -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 2.3.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update		Supported	
Controller Communication Port Access 802.1x RADIUS supplicant Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature	Device Security		
Communication Encrypted Port Access 802.1x RADIUS supplicant Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Certificate	Locally-significant certificates using PKI	
Application Integration PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature		Encrypted	
PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature	Port Access	802.1x RADIUS supplicant	
NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental Operating temperature	Application Integration		
Environmental Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	PM WANI,		
Operating temperature -40°C (-40F) ~ +70°C (+158F) Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	NMS Integration - ZABBIX	, PRTG Monitor, Open NMS	
Humidity 5% ~ 100% non-condensing Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Environmental		
Wind Resistance 160 kmph for sustained wind, 250 kmph for wind gusts Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Operating temperature	-40°C (-40F) ~ +70°C (+158F)	
Standard IP67 Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Humidity	5% ~ 100% non-condensing	
Physical Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Wind Resistance	160 kmph for sustained wind, 250 kmph for wind gusts	
Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H) Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Standard	IP67	
Weight 1575 g (3.47 lbs) Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Physical		
Mounting kit Pole mount Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Dimensions	23.9cm(L), 19.5cm(W), 8.3cm(H)	
Firmware Management Cloud-managed firmware update Scheduled firmware and security update	Weight	1575 g (3.47 lbs)	
Cloud-managed firmware update Scheduled firmware and security update	Mounting kit	Pole mount	
Scheduled firmware and security update	Firmware Management		
	Cloud-managed firmware	update	
Firmware upgrade via Access Point local GUI	Scheduled firmware and se	ecurity update	
	Firmware upgrade via Acce	ess Point local GUI	



Certifications	
Regulatory	FCC
	ETA
	BIS
	RoHS
Environmental	CE
	IP67

ORDERING INFORMATION

Part Code	Description
QN-O-240	Quantum Networks QN-O-240 dual-band 802.11ax outdoor wireless access point, 2x2:2 streams, 1x1/2.5G N Base-T Ethernet port and 1x1G base-X SFP port, 802.3 at PoE support. Includes 1-year limited liability manufacturer's warranty for the access point. Does not include PoE injector or power adaptor. Does not include cloud controller license.
QN-O-240-N	Quantum Networks QN-O-240-N connectorized dual-band 802.11ax outdoor wireless access point, 2x2:2 streams, 1x1/2.5G N Base-T Ethernet port and 1x1G base-X SFP port, 802.3 at PoE support. Includes 1-year limited liability manufacturer's warranty for the access point. Does not include PoE injector or power adaptor. Does not include cloud controller license.
Accessories Part Code	Bassington
Accessories Fait Code	Description
QN-ANT-2-5DB	2.4GHz External Outdoor Antennae with N-Connector, Gain: 5dBi
	•
QN-ANT-2-5DB	2.4GHz External Outdoor Antennae with N-Connector, Gain: 5dBi
QN-ANT-2-5DB QN-ANT-2-8DB	2.4GHz External Outdoor Antennae with N-Connector, Gain: 5dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 8dBi
QN-ANT-2-5DB QN-ANT-2-8DB QN-ANT-2-12DB	2.4GHz External Outdoor Antennae with N-Connector, Gain: 5dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 8dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 12dBi
QN-ANT-2-5DB QN-ANT-2-8DB QN-ANT-2-12DB QN-ANT-2-15DB	2.4GHz External Outdoor Antennae with N-Connector, Gain: 5dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 8dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 12dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 15dBi
QN-ANT-2-5DB QN-ANT-2-8DB QN-ANT-2-12DB QN-ANT-2-15DB QN-ANT-5-5DB	2.4GHz External Outdoor Antennae with N-Connector, Gain: 5dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 8dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 12dBi 2.4GHz External Outdoor Antennae with N-Connector, Gain: 15dBi 5GHz External Outdoor Antennae with N-Connector, Gain: 5dBi

DEVICE UPGRADE

Part Code	Description
QN-O-240-IoT	Additional BLE module for IoT-related applications.