INDOOR ACCESS POINT QN-I-220









MU-MIMO



2x2, AC Wave2



Dual-Band Dual-Concurrent



The demand for resilient wireless infrastructure is on the rise. Whether working from a small office or accessing a public hotspot, users increasingly expect access to high-bandwidth applications and content, just as they would in other locations. QN-I-220 is the optimal choice to meet the specified requirements.

PRODUCT OVERVIEW

The QN-I-220 ensures a wireless networking technology that offers concurrent dual-band, consistent and dependable 802.11ac wave 2. MU-MIMO technology delivers lightning-fast speeds and exceptional coverage, resulting in exceptional user experiences.

The QN-I-220 is the ideal choice for low-density enterprise and hotspot settings, including small and medium-sized businesses, retail establishments, restaurants, and multi-tenant small offices and branch offices.

The 802.11ac wave 2 Wi-Fi access point integrates exclusive technologies distinctive to the Quantum Wi-Fi portfolio. Every access point includes a manufacturer's warranty covering three years from the activation date, as well as theft protection features to safeguard assets against unauthorized use.

KEY FEATURES

Economical Enterprise Performance.

The QN-I-220 offers exceptional performance, an extended range and all at a budget-friendly cost.

Exceptional Wi-Fi performance.

Design to deliver outstanding Wi-Fi performance for demanding voice and video applications.

Automate the attainment of maximum data throughput.

Independently identifying the least congested channels guarantees consistent attainment of the highest data transfer rates supported by the available frequency spectrum.

Build advanced guest Wi-Fi networks for the future.

Implement customer service hotspots of the next-generation, complete with an integrated splash portal and Beacons via USB.

Diverse Management Alternatives.

Administer the QN-I-220 via Rudder cloud-based management or in a controller-free manner.

The QN-I-220 offers easy and effortless installation and mounting, making it the perfect choice for rapid and convenient setup in enterprise deployments.

www.qntmnet.com



Wi-Fi			
Wi-Fi Standards	5 GHz	IEEE 802.11a/n/ac	
	2.4 GHz	IEEE 802.11b/g/n	
Operating Mode	Access point, Router, Mesh mode		
Networking Mode	IPv4, IPv6, IPv4v6 (Dual stack), Gateway mode(NAT), Bridge mode		
Maximum Data Rates	5 GHz	802.11ac@ 80 MHz:866.7 Mbps	
		802.11ac@ 40 MHz:400 Mbps	
		802.11ac@ 20 MHz:173.3 Mbps	
	2.4 GHz	802.11n@ 40 MHz: 300 Mbps	
		802.11a/g@ 20 MHz: 54 Mbps	
		802.11b@ 20 MHz: 11 Mbps	
Maximum Receiver	5 GHz	-98 dBm	
Sensitivity	2.4 GHz	-93 dBm	
Supported Channels	5 GHz	36-64, 100-144, 149-165 (UNII-1, UNII-2, UNII-2e, UNII-3	
		compliant) (As per country regulations)	
	2.4 GHz	1-13 (As per country regulations)	
		Dynamic frequency selection (DFS) optimizes the use of available RF spectrum	
Channel Bands	5 GHz	5.15-5.25GHz (U-NII-1), 5.25-5.35GHz (U-NII-2A), 5.47-	
		5.725GHz (U-NII-2C), 5.725-5.85GHz (U-NII-3)	
	2.4 GHz	2.4-2.484GHz (ISM)	
Modulation Schemes	802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	
	802.11a/g/n	BPSK, QPSK, 16-QAM, 64-QAM	
	802.11b	BPSK, QPSK, CCK	
Radio Chains and Spatial	2x2:2	Streams in 5GHz- MU-MIMO	
Streams	2x2:2	Streams in 2.4GHz- MU-MIMO	
Channel Size	802.11n	20/40 (HT) MHz	
	802.11ac	20/40/80 (VHT) MHz	
Wireless Security	WPA3-AES personal, Enhanced open (OWE)		
	WPA3-Enterprise (802.1x/EAP-TLS, EAP-TTLS)		
	WPA3-WPA2 Mixed- AES personal, Open		
	WPA2-TKIP/AES personal, Open		
	WPA2-Enterprise (802.1x/EAP-PEAP,EAP-TLS, EAP-TTLS)		
	WPA personal, WPA Mixed-Enterprise (802.1x/EAP-PEAP)		
	WEP-64, WEP-128,		
	802.11 w MFP (Management Frame Protection)		
	MAC-based authentication		
	Captive portal based authentication		
	802.11i		
	Quantum Secure		
	Hide SSID in beacons		

WIPS/WIDS for Various	Rogue Station Detection		
Attack Signatures	Deauth attack detection, RTS and CTS abuse attack detection		
	Assoc attack detection, Fata jack tool detection, Misconfigured AP detection		
	DHCP snooping server detection, Honeypot /Evil Twin attacks detection		
	Ad-Hoc connection detection, Password guessing attacks detection		
External DB Support	Radius, Active directory, LDAP		
Web Authentication	QN-Secure+, RADIUS, Active directory, LDAP		
User Authentication	Methods - Captive portal, QN-Secure+, 802.1x (Radius)		
	Directory - QIM, Microsoft active directory, LDAP, G suite, Oauth		
	Mode - Via Controller /Access points		
Roaming	IEEE 802.11k (Assisted Roaming)		
Roanning	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		
Client Management	Band steering		
	Band balancing		
	Airtime fairness		
Guest Management	WISPr – Captive portal, HotSpot 2.0		
Native Guest Portal	Customized Template		
	Authentication Method		
	Guest Profile Support		
Diagnostics	Ping, Traceroute, Nslookup, Internet speed, Host discovery, Port connectivity, PCAP		
	capture (Wired and Wireless), ARP scanner		
Access Control List	Force DHCP		
	URL filtering		
	Full Client Isolation,		
	Deny inter-user bridging,		
	Deny intra-VLAN traffic Bandwidth Restriction per SSID/ User		
	OS restriction		
	L2 (MAC) filtering		
	L3 (IP) / L4 (Port) filtering		
	MAX clients per radio		
NA 1.	Internet freeze per SSID/User		
Meshing	Wireless (singlehop / multihop)		
	Wired		



Radio Management	DTIM interv	al		
Network Management		(Disables 802.11b)		
		BSS Rate and management rate		
		UAPSD (Power save)		
		Inactivity timeout IEEE 802.11d/h (DFS) support		
		LLDP discovery, SFlow		
	Proxy ARP			
		DHCP options 60 and 82		
		Port forwarding in router mode		
Administration		WLAN scheduling, Schedule reboot		
		Internet speed test		
Networking	internet spe			
Ethernet WAN	WANCOHO	P/Static/PPPoE)		
USB WAN				
Tunneling		USB dongle (3G/4G), Mobile tethering (USB)		
Multi-WAN		GRE, IPSec, Wire guard, OVPN		
		Yes, Auto-Failover		
DHCP Server		4 Scope, DHCP lease, DHCP MAC reservation, DNS proxy		
WAN Security		Ethernet / USB port block management		
PPP Interface		PPPoE		
DNS		Static, Caching		
NAT		e (SNAT), Port forwarding (DNAT)		
VLAN Support		802.1Q (1 per BSSID or dynamic per user-based on RADIUS)		
Quality of Sorvice	Port-based	(Tagged, untagged)		
Quality of Service				
Auto-QoS, 802.11e,				
Manual QoS (DSCP bas	ea, voice, video	BE and BK)		
WMM				
802.1p	• a			
Performance & Capac	-			
Peak PHY Rates		5 GHz - 866.7 Mbps		
	2.4 GHz - 3	•		
Client Capacity		lients per access point		
SSID	Up to 16 per	access point (8 per Radio)		
RF				
Maximum Aggregate Transmit Power	5 GHz	26 dBm (Adjusted as per country regulations)		
	2.4 GHz	27 dBm (Adjusted as per country regulations)		
Antenna Type		Internal Omni-directional antennas		
Antenna Gain (Max)	5 GHz	3 dBi		
	2.4 GHz	3 dBi		
EIRP	5 GHz	29 dBm		
	2.4 GHz	30 dBm		

Power			
Rating	802.3 af PoE / at PoE+ (Class 4) (Fully functional with all components)		
5	12V DC 2A - Fully functional with all components		
Physical Interfaces			
Ethernet	WAN: 1 x 10/100/1000 Base-T Ethernet, Auto-MDIX, RJ-45 with 802.3at PoE		
	LAN: 2 x 10/100/1000 Base-T Ethernet, Auto-MDIX, RJ-45		
Buttons	Restart/Reset		
USB	1 x USB 2.0		
LED indicators	Quick Setup , Cloud / Standalone		
Management			
Device Management	Standalone, Local (web UI), SSH (CLI)		
	Quantum Rudder (Controller based)		
	Quantum Rudder (On-premises VM)		
	Quantum Rudder appliances (RR-200, RR-300, RR400)		
	Through NMS using SNMP MIBs		
	Local device web management		
Device /System	SNMP v1, v2c, v3, Syslog		
monitoring			
Controller DR (Disaster Recovery)	Supported		
Device Security			
Certificate	Locally-significant certificates using PKI		
Controller	Encrypted		
Communication			
Application Integration			
PM WANI,			
3	X, PRTG Monitor, Open NMS		
Environmental			
Operating Temperature	-20°C (-4F) ~ +55°C (+131F)		
Humidity	10% ~ 90% Non-condensing		
Standard	Plenum-rated (UL2043)		
Physical			
Dimensions	19.5cm(L), 19.5cm(W), 3.5cm(H)		
Weight	0.547kg (1.20 lbs)		
Mounting Kit	Suspended ceiling mount, Ceiling mount, Wall mount		
Firmware Management			
Cloud-managed firmware	update		
Scheduled firmware and s	ecurity update		
Firmware upgrade via Acc	ess Point local GUI		

Certifications	
Regulatory	FCC
	BIS
	ETA
	TEC
Environmental	RoHS
	CE

ORDERING INFORMATION

Part Code	Description
	Quantum QN-I-220 dual-band 802.11ac wave2 indoor wireless access point, 2x2:2
QN-I-220	streams, 3x1G Base-T Ethernet ports, 802.3af/at PoE support. Comes with a three-year
	limited liability manufacturer's warranty for the access point.