

INDOOR ACCESS POINT

QN-I-220



Up to 1.2 Gbps
Data Rate



MU-MIMO



2x2,
AC Wave2



Dual-Band
Dual-Concurrent



3 Years
Warranty

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.

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 Sensitivity	5 GHz	-98 dBm
	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 Streams	2x2:2	Streams in 5GHz- MU-MIMO
	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 Attack Signatures	Rogue Station Detection
	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)
	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 Management	Auto / Manual channel selection
	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
	Internet freeze per SSID/User
Meshing	Wireless (singlehop / multihop)
	Wired

Radio Management	DTIM interval	
	OFDM Only (Disables 802.11b)	
	BSS Rate and management rate	
	UAPSD (Power save)	
	Inactivity timeout	
Network Management	IEEE 802.11d/h (DFS) support	
	LLDP discovery, SFlow	
	Proxy ARP	
	DHCP options 60 and 82	
	Port forwarding in router mode	
Administration	WLAN scheduling, Schedule reboot	
	Internet speed test	
Networking		
Ethernet WAN	WAN (DHCP/Static/PPPoE)	
USB WAN	USB dongle (3G/4G), Mobile tethering (USB)	
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 / USB port block management	
PPP Interface	PPPoE	
DNS	Static, Caching	
NAT	Masquerade (SNAT), Port forwarding (DNAT)	
VLAN Support	802.1Q (1 per BSSID or dynamic per user-based on RADIUS)	
	Port-based (Tagged, untagged)	
Quality of Service		
Auto-QoS, 802.11e,		
Manual QoS (DSCP based, Voice, Video, BE and BK)		
WMM		
802.1p		
Performance & Capacity		
Peak PHY Rates	5 GHz - 866.7 Mbps	
	2.4 GHz - 300 Mbps	
Client Capacity	Up to 256 clients 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) 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 monitoring	SNMP v1, v2c, v3, Syslog
Controller DR (Disaster Recovery)	Supported
Device Security	
Certificate	Locally-significant certificates using PKI
Controller Communication	Encrypted
Application Integration	
PM WANI,	
NMS Integration - ZABBIX, 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 security update	
Firmware upgrade via Access Point local GUI	

Certifications	
Regulatory	FCC
	BIS
	ETA
	TEC
Environmental	RoHS
	CE

ORDERING INFORMATION

Part Code	Description
QN-I-220	Quantum Networks QN-I-220 dual-band 802.11ac wave2 indoor wireless access point, 2x2:2 streams, 3x1G Base-T Ethernet ports, 802.3 af/at PoE support. Includes 3-year limited liability manufacturer's warranty for the access point. Does not include PoE injector or power adaptor. Does not include cloud controller license.