OUTDOOR ACCESS POINT QN-0-230







Up to 1.2 Gbps Data Rate



MU-MIMO



AC Wave2



Dual-Band Dual-Concurrent



PRODUCT OVERVIEW

QN-O-230 smart antenna and MIMO technology provide high data rates even in medium-density and high-interference environments. SFP backhaul port allows service providers to backhaul data over fiber without additional hardware devices to convert Fiber to Ethernet.

QN-O-230 is manageable through a centralized platform and supported by Quantum Networks DevOps and maintenance. QN-O-230 can also deploy 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

Deliver 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

It is engineered for phenomenal Wi-Fi performance even in medium-density environments for demanding voice and video applications. Provides improved coverage, increased capacity and seamless performance in medium-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.



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Wi-Fi				
Wi Fi Standarda	5 GHz	IEEE 802.11a/n/ac		
Wi-Fi Standards	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			
		802.11ac@ 80 MHz:866.7 Mbps		
	5 GHz	802.11ac@ 40 MHz:400 Mbps		
Maximum Data Rates		802.11ac@ 20 MHz:173.3 Mbps		
Maximum Data Rates		802.11n@ 40 MHz: 300 Mbps		
	2.4 GHz	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		
	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		
		5.15-5.25 GHz (U-NII-1), 5.25-5.35 GHz (U-NII-2A), 5.47-5.725		
Channel Bands	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)		
	802.11ac	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		
Radio Chains and	2x2:2	Streams in 5GHz- MU-MIMO		
Spatial Streams	2x2:2	Streams in 2.4GHz- MU-MIMO		
Channel Size	802.11n	20/40 (HT) MHz		
	802.11ac	20/40/80 (VHT) MHz		
	WPA3-AES personal, enhanced open (OWE)			
		WPA3-Enterprise (802.1x/EAP-TLS, EAP-TTLS)		
	WPA3-WPA2 Mixed- A	WPA3-WPA2 Mixed- AES personal, Open		
	WPA2-TKIP/AES perso	onal, Open		
	WPA2-Enterprise (802.1x/EAP-PEAP, EAP-TLS, EAP-TTLS)			
Wireless Security	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			
External DB Support	Radius, Active directory	y, LDAP, TACACS+		
Web Authentication	QN-Secure+, RADIUS,	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)
	IEEE 802.11r (Fast BSS Transition (FT))
Roaming	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
Native Guest Portal	Authentication Method
	Guest Profile Support
Diagnostics	Ping, Traceroute, Nslookup, Internet Speed, Host Discovery, Port Connectivity, PCAP
	capture (Wired and Wireless), ARP Scanner
	Force DHCP
	URL filtering
	Full Client Isolation, Deny inter-user bridging,
	Deny intra-VLAN traffic
	Bandwidth Restriction per SSID/ User
Access Control List	OS restriction
Access Control List	L2 (MAC) filtering
	L3 (IP) / L4 (Port) filtering
	MAX clients per radio
	Internet freeze per SSID / User
	Session control
	Random MAC Detection
	Wireless (single hop / multihop)
Meshing	Wired
	Point to Point
WDS	Point to MultiPoint



	DTIM interval
Radio Management	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
Network Management	Proxy ARP
	DHCP options 43, 60 and 82
	Port forwarding in router mode
	CoA (Change of Authorization)
Radius Integration	MAC Authentication
	Dynamic VLAN
	WLAN scheduling
Administration	Internet speed test
	Schedule reboot
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
WIDS/WIPS	Disassoc attack
	Omerta attack
	Password guessing attack
	Ad-Hoc connection
	Dos attack
NIPS	DDos attack
	Port scanning
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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 / SFP WAN	WAN (DHCP/Static/PPPoE)				
Tunneling	GRE, IPSe	ec, Wire guard, OVPN			
Multi-WAN	Yes, Auto-Failover				
DHCP Server	4 Scope, l	DHCP lease, DHCP MA	AC reservation, DNS	S proxy	
WAN Security	Ethernet p	oort block managemen	it		
PPP Interface	PPPoE				
DNS	Static, Ca	ching			
NAT	Masquerade (SNAT), Port forwarding (DNAT)				
VLAN Support	802.1Q (1 per BSSID or dynamic per user based on RADIUS), Port-based (Tagged, untagged)				
IGMP	IGMP v2, IGMP Snooping				
Supported Features	Safe Search, ALG Control				
Quality of Coursion	UPnP, DMZ Host, Adblock				
Quality of Service					
Auto QoS, 802.11e, Manual QoS (DSCP based,	Voice Vide	DE and PK)			
WMM, 802.1p	voice, vide				
Wiffi Calling					
DiffServ					
Performance & Capacity					
r criormanee a capacity		5 GHz	866.7 Mbps		
Peak PHY Rates		2.4 GHz	300 Mbps		
Client Capacity		Up to 256 clients per	· ·		
SSID		Up to 16 per access p			
RF		QN-0-230	QN-O-230-N		
			QN-ANT-5-5DB	QN-ANT-5-8DB	QN-ANT-5-12DB
Maximum Aggregate	5 GHz	24 dBm	24 dBm	24 dBm	24 dBm
Transmit Power (As per country regulations)	2.4 GHz	26 dBm	26 dBm	25 dBm	25 dBm
Antenna Gain (Max)	5 GHz	5 dBi	5 dBi	8 dBi	12 dBi
	2.4 GHz	5 dBi	5 dBi	8 dBi	12 dBi
EIRP (As per country	5 GHz	29dBm	29 dBm	32 dBm	36 dBm
regulations)	2.4 GHz	31 dBm	31 dBm	33 dBm	37 dBm
Antenna Type		Internal Omni directional antenna	External antennas	s connectors	



Rating 802.3 af PoE / at PoE + (Class 4) (Fully functional with all components) Physical Interfaces Ethernet WAN: 1x 10/100/1000 Base-T Ethernet, Auto-MDIX, RJ-45 with 802.3at Pot Fiber WAN / LAN: 1x 1000 Base-X (SX / LX) SFP port Buttons Restart/Reset LED indicators 2.4 GHz, 5 GHz, Ethernet, System, Power Management Quantum Rudder Controller-based) Quantum Rudder (On-premises VM) Quantum Rudder (On-premises VM) Quantum Rudder appliances (RR-200, RR-300, RR-400) Through NMS using SNMP MIBs Local device web management Supported Pevice /System monitoring SNMP v1, v2c, v3, Syslog NTP Server Configuration Supported IPDR Logs (IPFix, Netflow v9) IPL Logs (Syslog) Controller DR (Disaster Recovery) Supported Device Security Locally-significant certificates using PKI Controller Communication Encrypted Application Integration Encrypted PM WANI, NMS Integration - ZABBIX, PRTG Monitor, Open NMS Environmental -40°C (-40F) ~ + 70°C (+158F) Humidity 5% ~ 100% non-condensing	Power			
Ethernet WAN: 1 x 10/100/1000 Base-T Ethernet, Auto-MDIX, RJ-45 with 802.3at Pot Fiber WAN / LAN: 1 x 1000 Base-X (SX / LX) SFP port Buttons Restart/Reset LED indicators 2.4 GHz, 5 GHz, Ethernet, System, Power Management Standalone, Local (web UI), SSH (CLI) Quantum Rudder Controller-based) Quantum Rudder (On-premises VM) Quantum Rudder oppliances (RR-200, RR-300, RR-400) Through NMS using SNMP MIBs Local device web management Supported Prefic Monitoring Supported Controller DR (Disaster Recovery) Supported Device Security Supported Certificate Locally-significant certificates using PKI Controller Communication Encrypted Application Integration - ZABBIX, PRTJ with, Open NMS Terviticates using PKI PM WANI, NMS Integration - ZABBIX, PRTJ with, Open NMS Environmental -40°C (-40F) ~ + 70°C (+158F)	Rating	802.3 af PoE / at PoE+ (Class 4) (Fully functional with all components)		
Fiber WAN / LAN: 1x 1000 Base-X (SX / LX) SFP port Buttons Restart/Reset LED indicators 2.4 GHz, 5 GHz, Ethernet, System, Power Management Standalone, Local (web UI), SSH (CLI) Quantum Rudder Controller-based) Quantum Rudder (On-premises VM) Quantum Rudder on pipiances (RR-200, RR-300, RR-400) Through NMS using SNMP MIBs Local device web management Local device web management Pevice /System monitoring SNMP v1, v2c, v3, Syslog NTP Server Configuration Supported IPDR Logs (IPFix, Netflow v9) IRL Logs (Syslog) Controller DR (Disaster Recovery) Supported Device Security Supported Certificate Locally-significant certificates using PKI Controller DR (Disaster Recovery) Encrypted Pevice Security Encrypted Vertificate Locally-significant certificates using PKI Controller Communication Encrypted MINS Integration - ZABBIX, PRTG-WINF, Open NMS Encrypted PM WANI, -40°C (-40F) ~ + 70°C (+158F)	Physical Interfaces			
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EnvironmentalOperating Temperature-40°C (-40F) ~ + 70°C (+158F)	PM WANI,			
Operating Temperature -40°C (-40F) ~ + 70°C (+158F)	NMS Integration - ZABBIX, PRTG N	Ionitor, Open NMS		
	Environmental			
Humidity 5% ~ 100% non-condensing	Operating Temperature	-40°C (-40F) ~ + 70°C (+158F)		
	Humidity	5% ~ 100% non-condensing		
Wind Resistance160 kmph for sustained wind, 250 kmph for wind gusts	Wind Resistance	160 kmph for sustained wind, 250 kmph for wind gusts		
Standard IP67	Standard	IP67		
Physical	Physical			
Dimensions 23.9cm(L), 19.5cm(W), 8.3cm(H)	Dimensions	23.9cm(L), 19.5cm(W), 8.3cm(H)		
Weight 1575 g (3.47 lbs)	Weight	1575 g (3.47 lbs)		
Mounting Kit Pole mount	Mounting Kit	Pole mount		



Certification and Compliances			
Certifications	Parameter	Standards	
Regulatory (USA)	FCC		
	BIS	IS-13252, IEC-60950	
Regulatory (IN)	MTCTE (ER)	MI/EMC (IEC / EN-61000* & CISPR 32), Safety (IS-13252 & IEC-60950), Radio, Technical (IPv4 & IPv6)	
	IPv6 Ready		
	ETA (WPC) NABL 2.4, NABL 5		
Environmental Compliances	CE, RoHS, IP67		

ORDERING INFORMATION

Part Code	Description	
QN-0-230	Quantum Networks qn-o-230 dual-band 802.11ac outdoor wireless access point, 2x2:2 streams, 1x1G Base-T Ethernet port and 1x1G Base-X SFP port, 802.3 af/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-0-230-N	Quantum Networks qn-o-230n connectorized dual-band 802.11ac outdoor wireless access point, 2x2:2 streams, 1x1G base-T Ethernet port and 1x1G Base-X SFP port, 802.3 af/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-230-IPA1	Alter interface panel to 2 x 1/100/1000 Base-T Ethernet, Auto-MDIX, RJ-45 ports.	
Accessories Part Code	Description	
QN-ANT-2-5DB	2.4Ghz External Outdoor Antennae with N-Connector, Gain: 5dBi	
QN-ANT-2-8DB	2.4Ghz External Outdoor Antennae with N-Connector, Gain: 8dBi	
QN-ANT-2-12DB	2.4Ghz External Outdoor Antennae with N-Connector, Gain: 12dBi	
QN-ANT-5-5DB	5Ghz External Outdoor Antennae with N-Connector, Gain: 5dBi	
QN-ANT-5-8DB	5Ghz External Outdoor Antennae with N-Connector, Gain: 8dBi	
QN-ANT-5-12DB	5Ghz External Outdoor Antennae with N-Connector, Gain: 12dBi	