INDOOR ACCESS POINT QN-I-740







Up to 11.1 Gbps Data Rate



10G SFP+ Connectivity



2.4 GHz - 2x2, 5 GHz - 4x4 6 GHz - 2x2



MU-MIMO With OFDMA



3 Years Warranty

The QN-I-740 is a premium Wi-Fi 7 enterprise-grade access point supporting 2-stream operation in 6GHz and 2.4GHz bands, and 4-stream operation in the 5GHz band with 802.11be technology. It offers exceptional capacity, optimized spectrum utilization, and flexibility, achieving a tri-band aggregate data rate of 11.1 Gbps. With features like Multi-link Operation, Preamble Puncturing, Uplink/Downlink OFDMA, and MU-MIMO, it delivers reliable performance in high-density environments, making it ideal for large enterprises, university campuses, and healthcare facilities.

PRODUCT OVERVIEW

The QN-I-740 Wi-Fi 7 (802.11be) indoor access point features a multi-link operation (MLO) for channel aggregation and 4K QAM for higher throughput and lower latency. It unlocks the 6 GHz band, more than doubling the available capacity, making it an advanced connectivity solution tailored for high-performance environments and modern, high-traffic demands.

KEY FEATURES

Wi-Fi 7 Standard

The QN-I-740 provides extensive coverage across 2.4 GHz, 5 GHz and 6 GHz, achieving a maximum tri-band aggregate data rate of 11.1 Gbps. It also offers configurable high availability through 2.5 Gbps Ethernet ports for seamless failover of both data and power, along with 10G SFP+ ports that ensure business continuity for mission-critical applications.

Extend the Benefits of Wi-Fi 7

The QN-I-740 access point, based on the 802.11be standard, provides efficiency and security enhancements on the 6 GHz band. It fully supports Wi-Fi 7 features like OFDMA and BSS Coloring and introduces new capabilities such as wide 320 MHz bandwidth channels, multi-link operation (MLO) for channel aggregation and failover and 4096 QAM (4K QAM) for higher peak data rates.

Unified Security Center for Wireless and Wired Network Protection

Quantum Hawkeye simplifies wireless device security management through automated categorization using a proprietary method, while delivering comprehensive defense against rogue access points, soft APs, Wi-Fi DoS attacks, and more, ensuring robust protection across wireless and wired networks, all while enhancing core network security to empower administrators with confident risk identification and mitigation.

Versatile management options

Experience versatility in management with a range of options, including cloud-based management or operation without a dedicated controller.

Theft prevention functionality

Implement robust theft prevention measures with a secure access point locking mechanism. Ensure access points remain exclusive to their designated networks until they are properly decommissioned. This security feature safeguards against unauthorized deployment in other networks, enhancing overall network integrity.



Wi-Fi		
	6 GHz	IEEE 802.11a/n/ac/ax/be
Wi-Fi Standards	5 GHz	IEEE 802.11a/n/ac/ax
	2.4 GHz	IEEE 802.11b/g/n/ax
Operating Mode	Access point, Router, M	1esh mode
Networking Mode	IPv4, IPv6, IPv4v6 (Dua	al-stack), Gateway mode (NAT), Bridge mode
		802.11be@ 320 MHz: 5765 Mbps
		802.11be@ 160 MHz: 2882 Mbps
	6 GHz	802.11be@ 80 MHz: 1441 Mbps
		802.11be@ 40 MHz: 688 Mbps
		802.11be@ 20 MHz: 344 Mbps
		802.11ax@ 160 MHz: 4804 Mbps
		802.11ax@ 80 MHz: 2402 Mbps
		802.11ax@ 40 MHz: 1147.1 Mbps
Maximum Data Rates	5 GHz	802.11ax@ 20 MHz: 573.5 Mbps
		802.11ac@ 80 MHz: 2166.6 Mbps
		802.11ac@ 40 MHz: 1000 Mbps
		802.11ac@ 20 MHz: 481.1 Mbps
		802.11ax@ 40 MHz: 573.5 Mbps
	2.4 GHz	802.11ax@ 20 MHz: 286.8 Mbps
		802.11n@ 40 MHz: 500 Mbps
		802.11b/g@ 20 MHz: 54 Mbps
		802.11b@ 20 MHz: 11 Mbps
	6 GHz	-95 dBm
Maximum Receiver	5 GHz	-98 dBm
Sensitivity	2.4 GHz	-93 dBm
Supported Channels	6 GHz	1-29, 33-61, 65-93, 97-125, 129-157, 161-189, 193-221 (UNII-1, UNII-2A, UNII-2C, UNII-3, UNII-4, UNII-5, UNII-6, UNII-7, UNII-8 compliant) (As per country regulations)
	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	6 GHz	5.15-5.25 GHz (U-NII-1), 5.25-5.35 GHz (U-NII-2A), 5.47-5.725 GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3) 5.925-6.425 GHz(U-NII-5), 6.425-6.525 GHz(U-NII-6), 6.525-6.875 GHz(U-NII-7), 6.875-7.125 GHz(U-NII-8)
	5 GHz	5.15-5.25 GHz (U-NII-1), 5.25-5.35 GHz (U-NII-2A), 5.47-5.725 GHz (U-NII-2C), 5.725-5.85 GHz (U-NII-3)
	2.4 GHz	2.4-2.484GHz (ISM)



	802.11be	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM, 4096-QAM
Modulation Schemes	802.11ax	BPSK, QPSK, 16-QAM, 64-QAM, 256- QAM, 1024-QAM
	802.11ac	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
	802.11a/g/n	BPSK, QPSK, 16-QAM, 64-QAM
	802.11b	BPSK, QPSK, CCK
	2x2:2	Streams in 6GHz-OFDMA with MU-MIMO
Radio Chains and Spatial Streams	4x4:4	Streams in 5GHz-OFDMA (802.11ax) and OFDM (802.11ac) with MU-MIMO
	2x2:2	Streams in 2.4GHz- OFDM (802.11a/g/n) and DSSS (802.11b) with MU-MIMO
	802.11n	20/40 (HT) MHz
Cl IC:	802.11ac	20/40/80 (VHT) MHz
Channel Size	802.11ax	20/40/80/160 (HE) MHz
	802.11be	20/40/80/160/320 (EHT) MHz
	WPA3-AES personal, E	nhanced 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)	
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	
	Rogue Station Detection	on .
	Deauth attack detection, 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, Ad-Hoc connection detection, Password guessing attacks detection	
External DB Support	Radius, Active directory, LDAP	
Web Authentication	QN-Secure+, RADIUS,	Active directory, LDAP
	Methods	Captive portal, QN-Secure+, 802.1x (Radius)
	MCtilous	
User Authentication	Directory	QIM, Microsoft active directory, LDAP, Gsuite, Oauth



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 cachi	ng	
	Seamless roaming for ca	aptive portal users	
	Auto / Manual channel s	selection	
Channel / Tx Power Management	Speedy channel for RF optimization		
	Channel switch for RF 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),	
Native Guest Portal	Method	Sponsor based (Domain-based, Individual Email ID based)	
	Guest Profile Support	Pass validity, Bandwidth restriction, Quota based	
Diagnostics		kup, Internet speed, Host discovery, Port connectivity, PCAP	
_	capture (Wired and Wire	eless), ARP scanner	
	URL & Application filtering		
	Full Client Isolation, Deny inter user bridging, Deny intra VLAN traffic		
Access Control List	Bandwidth Restriction per SSID/per 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	, , , , , ,	uitinop)	
	Wired		
	DTIM interval		
Radio Management	OFDM Only (Disables 802.11b)		
	BSS Rate and management rate		
	UAPSD (Power save)		
	Inactivity timeout		
	IEEE 802.11d/h (DFS) support		
NI. I A	LLDP discovery, SFlow		
Network Management	Proxy ARP		
	DHCP options 60 and 82		
	Port forwarding in route	r mode	



	WLAN scheduling			
Administration	Internet speed test			
	Schedule reboot	·		
	Target wake time			
Wi-Fi7/6 Features	Multi-Link Operation			
	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 quard interval for 20-MHz, 40	,		
Advance Features		increased range and improved reception		
		r high-efficiency error correction and increased		
	throughput	3		
	Transmit beam-forming (TxBF) for in	ncreased signal reliability and range		
Networking				
SFP/Ethernet WAN	WAN (DHCP/Static/PPPoE)			
USB WAN	USB dongle (3G/4G), Mobile tether	USB dongle (3G/4G), Mobile tethering (USB)		
Protocols	Static, RIP v2, OSPF v2	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 / USB port block management			
PPP Interface	PPPoE, L2TP, L2TP with IPSec			
DNS	Static, Caching, Dynamic DNS			
NAT	Masquerade (SNAT), Port forwardin	Masquerade (SNAT), Port forwarding (DNAT)		
VLAN Support	802.1Q (1 per BSSID), Port-based (T	802.1Q (1 per BSSID), Port-based (Tagged, untagged)		
IoT	Supported (With BLE)			
Quality of Service				
Auto QoS, 802.11e,	·			
Manual QoS (DSCP base	ed, Voice, Video, BE and BK)			
WMM				
802.1p				
Performance & Capaci	ity			
Peak PHY Rates	6 GHz	5765 Mbps (802.11be)		
	5 GHz	4804 Mbps (802.11ax)		
	2.4 GHz	573.5 Mbps (802.11ax)		
Client Capacity	Up to 1536 clients per Access point	,		
	Up to 32 per access point (16 per Radio)			



RF			
Maximum Aggregate	6 GHz	22 dBm	
Transmit Power (Adjusted as per country regulations)	5 GHz	23 dBm	
	2.4 GHz	24 dBm	
Antenna Type	Built-in integrated antenna for both radi	os and BLE	
	6 GHz	5 dBi	
Antenna Gain (Max)	5 GHz	6 dBi	
	2.4 GHz	6 dBi	
	BLE	5 dBi	
	6 GHz	27 dBm	
EIRP (Adjusted as per	5 GHz	29 dBm	
country regulations)	2.4 GHz	30 dBm	
Power			
Detie -	802.3 at PoE+ / bt PoE++ (Class 6) (Ful	ly functional with all components)	
Rating	12V DC 5A - Fully functional with all components		
Physical Interfaces			
		thernet, Auto MDIX, RJ-45 with 802.3at	
Ethernet	PoE		
Ethernet	LAN: 1 x 10/100/1000/2.5G N Base -T ethernet, Auto MDIX, RJ-45 with 802.3at PoE		
CED	802.3bz specifications, 802.3az Energy	· · ·	
SFP Console	WAN/LAN: 1 x 10G Base-X (SX / LX) SFP+ port		
USB	1x RJ-45 Ethernet		
	1x USB 3.0		
Buttons	Restart/Reset		
LED Indicators	Power, 2.4 GHz, 5 GHz, 6GHz, Uplink		
Management	Standalone Local (wob LII) SSH (CLI)		
	Standalone, Local (web UI), SSH (CLI) Ouantum Budder (Centreller based)		
	Quantum Rudder (Controller based)		
Device Management	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	Supported Supported		
(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, PR	TG Monitor, Open NMS
Environmental	
Operating Temperature	0°C (32°F) to 55°C (131°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 upd	ate
Scheduled firmware and security update	
Firmware upgrade via Access Point local GUI	

ORDERING INFORMATION

Certifications	
QN-I-740	The Quantum Networks QN-I-740 is a tri-band 802.11be indoor wireless access point with 4x4:4 streams in the 5 GHz, 2x2:2 streams in the 6 GHz, and 2.4 GHz bands. It features 2x1/2.5G Base-T Ethernet ports, 1x10G Base-X SFP+ port, onboard BLE support, and 802.3at/bt PoE+/PoE++ support. The access point includes a 3-year limited liability manufacturer's warranty. Does not include PoE injector or power adaptor. Does not include cloud controller license.