Wi-Fi

Next-Level Wireless Connectivity

OVERVIEW

Introducing the complete DuxNet Wi-Fi Range: a comprehensive solution for all your wireless networking needs. This versatile lineup includes Indoor Wi-Fi Access Points, Outdoor Wi-Fi Access Points, Outdoor Wi-Fi Bridges, and a Gateway & Controller, all designed to deliver next-level connectivity and exceptional performance.

DuxNet Wi-Fi Access Points perfectly balance style and functionality, with models ranging from the affordable AC1200 to the high-performance, enterprise-grade AX3600. The range offers sleek, ceiling-mounted indoor units that blend effortlessly into modern spaces and rugged, weatherproof outdoor models built to withstand the elements. All units feature PoE support, simplifying installation by eliminating the need for extra cabling while ensuring robust, high-speed connectivity across any environment.

Whether you need reliable coverage indoors or powerful connectivity outdoors, the DuxNet Wi-Fi solutions provide the flexibility, durability, and performance to meet your networking demands.

MAIN FEATURES

- **Seamless Performance:** Experience uninterrupted, high-speed Wi-Fi connectivity across the full range, from entry-level to enterprise-grade models.
- **Flexible Deployment:** Choose from indoor and weatherproof outdoor options, ensuring optimal Wi-Fi coverage in any environment, whether at home or in business spaces.
- **PoE Convenience:** All models support Power over Ethernet (PoE), simplifying installation by eliminating the need for additional power cables.
- **Scalable Solutions:** Easily expand and scale your network with a variety of models that cater to growing demands, from home and small offices to large enterprise setups.
- **Advanced Security:** Built-in security features provide robust protection against potential network threats, ensuring safe and reliable connections for all users.
- **Affordable Quality:** Despite their advanced features and robust performance, the DuxNet Wi-Fi range is highly affordable, offering premium quality without the premium price tag.

INDOOR WI-FI ACCESS POINTS

	11AX Series		
Model Name	DUX880AP	DUX840AP	DUX820AP
			

	11ac Dual Band - 1200Mbps	
Model Name	DUX420AP	DUX240AP
		

OUTDOOR WI-FI ACCESS POINTS

	11AX Series	11ac Dual Band - 1200Mbps
Model Name	DUX840APO	DUX840APO
		

OUTDOOR WI-FI BRIDGES

	Dual Band	5GHz Series	
Model Name	DUX2200CPE	DUX512CPE	DUX450CPE
			

GATEWAY & CONTROLLER

Model Name	DUXAPC64
	

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Indoor Wi-Fi Access Points



Next-Level Wireless for Every Indoor Corner

OVERVIEW

Elevate your wireless networking experience with DuxNet Indoor Wi-Fi Access Points, designed to deliver next-level performance and reliability in any environment. These sleek, ceiling-mounted units provide seamless connectivity that blends with modern aesthetics while ensuring robust network performance. All at a price point you can afford.

MAIN FEATURES

- **High-Speed Connectivity:** exceptional data rates, ideal for high-demand applications, from video streaming to online collaboration. There's a model for every need.
- **Sleek Design:** Their unobtrusive, contemporary design allows for easy installation in any indoor space, enhancing the overall aesthetic while providing powerful coverage.
- **Next-Level Performance:** Engineered with advanced technologies, these access points deliver faster speeds and greater capacity, ensuring smooth connections even in high-density environments.
- **PoE Support:** With Power over Ethernet capability, installation is simplified by eliminating the need for separate power outlets. This feature ensures a cleaner setup and minimizes installation time.
- **Scalability:** Perfect for both small offices and expansive commercial spaces, DuxNet Indoor Wi-Fi Access Points can be easily integrated into existing networks and scaled to meet future demands.
- **Centralized Management:** The inclusion of a Gateway & Controller allows for easy monitoring and management of multiple access points, enabling IT teams to optimize network performance effortlessly.
- **Affordable Quality:** Despite their advanced features and robust performance, DuxNet Indoor Wi-Fi Access Points are highly affordable, offering premium quality without the premium price tag.

11AX Series

11ac Dual Band - 1200Mbps

Model Name	DUX880AP	DUX840AP	DUX820AP	DUX420AP	DUX240AP
					
Chipset	Qualcomm IPQ8072A	Qualcomm IPQ6000	MT7621AT	Qualcomm QCA9563	MT7628+7613
FIT/FAT Protocol	FIT/FAT AP	FIT/FAT AP	FIT/FAT AP	FIT/FAT AP	FIT/FAT AP
Flash	8MB+128MB	8MB+128MB	16MB	16MB	8MB
RAM	512*2MB	256*2MB	256MB	128MB	64MB
Standard	IEEE802.11AX/AC/N/G/B	IEEE802.11AX/AC/N/G/B	IEEE802.11AX/AC/N/G/B	IEEE802.11AC/N/G/B	IEEE802.11AC/N/G/B
Frequency	2.4GHz+5GHz	2.4GHz+5GHz	2.4GHz+5GHz	2.4GHz+5GHz	2.4GHz+5GHz
Wireless data rate	1182Mbps+2475Mbps	591Mbps+1238Mbps	591Mbps+1238Mbps	300Mbps+900Mbps	300Mbps+900Mbps
Rate	AX3600	AX1800	AX1800	AC1200	AC1200
WAN	10/100/1000/2500M WAN*1	10/100/1000M WAN*1	10/100/1000M WAN*1	10/100/1000M WAN*1	10/100M WAN*1
LAN	10/100/1000/2500M LAN*1	10/100/1000M LAN*1	10/100/1000M LAN*1	10/100/1000M LAN*1	10/100M LAN*1
DC	DC:12V 3A	DC:12V 3A	DC:12V 1.5A	DC:12V 1.5A	DC:12V 1A
PoE Power	WAN Port 48V 802.3at+	WAN Port 48V 802.3at	WAN Port 48V 802.3af	WAN Port 48V 802.3at POE	WAN Port 48V 802.3af POE
Firmware	OpenWRT	OpenWRT	OpenWRT	1. SDK Firmware 2. OPENWRT Firmware	1. SDK Firmware 2. OPENWRT Firmware
Basic Feature	1. Build in 3+dBi Antenna 2. RF Power:≤20dBm 3. MIMO 4x4	1. Build in 3+dBi Antenna 2. RF Power:≤23dBm 3. MIMO 2x2	1. Build in 3+dBi Antenna 2. RF Power:≤16dBm 3. MIMO 2x2	1. Build in 4dBi Antenna 2. RF Power:≤26dBm 3. Support wireless adjustable RF power 4. Concurrent users 120 5.FIT/FAT AP together 6. Support Wave2	1. Build in 4dBi Antenna 2. RF Power:≤26dBm 3. Support wireless adjustable RF power 4. Concurrent users 120 5.FIT/FAT AP together 6. Support Wave2
Firmware Feature	1. Support Multi SSID up to 8, support VLAN tags and VLAN management 2. Supports intelligent user based load balance based on user 3. Support seamless roaming and low rate terminal access 4. Support WI-FI channel analysis 5. Support WLAN Controller Central Management and cloud server			1. Support Multi SSID up to 8, support tag VLAN tags and VLAN management 2. Supports intelligentuser basd load balance based on user 3. Support seamless roaming and low rate terminal access 4. Support WI-FI channel analysis 5. Support WLAN Controller Central Management and cloud server remote access / management	
Accessory	User Manual, Ceiling mount accessory, LAN cable			User Manual, Ceiling mount accessory, LAN cable	

*Actual wireless transmission rate, wireless coverage and range, and number of connected devices are not guaranteed. Range and coverage specifications along with the number of connected devices were defined according to test results under normal usage conditions and will vary as a result of environmental factors and network conditions.

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Outdoor Wi-Fi Access Points



Elevate your Outdoor Wireless to the Next Level

OVERVIEW

Take your wireless networking to the next level with the DuxNet Outdoor Wi-Fi Access Point Range. Engineered for high-performance connectivity in challenging outdoor environments, this range combines durability with cutting-edge technology to provide seamless coverage across large outdoor spaces. Whether you're powering a campus, outdoor venue, or industrial site, these weatherproof access points deliver reliable, next-level connectivity no matter the conditions.

MAIN FEATURES

- **Rugged, Weatherproof Design:** Built to withstand extreme weather conditions, the DuxNet Outdoor Access Points are designed for durability, ensuring reliable performance in rain, wind, or high temperatures.
- **High-Speed Performance:** These access points offer high-speed data transfer rates, ensuring smooth connectivity even in high-traffic outdoor areas, supporting demanding applications like HD streaming, video surveillance, and data-heavy tasks.
- **Wide Coverage Area:** Optimized for outdoor environments, DuxNet Outdoor Access Points provide expansive coverage, making them ideal for large outdoor spaces such as campuses, parks, warehouses, or construction sites.
- **PoE Support:** Installation is streamlined with Power over Ethernet (PoE), reducing the need for extra wiring and making it easy to deploy these units in remote or hard-to-reach areas.
- **Scalability and Flexibility:** Whether you're starting with a single unit or building an extensive outdoor network, the DuxNet range can easily scale to match your growing requirements, providing flexible solutions for both small and large setups.
- **Affordable Quality:** Despite their advanced features and robust performance, DuxNet Outdoor Wi-Fi Access Points are highly affordable, offering premium quality without the premium price tag.

OUTDOOR WI-FI ACCESS POINTS

Model Name	11AX Series DUX840AP0	11ac Dual Band - 1200Mbps DUX420AP0
		
Chipset	Qualcomm IPQ6000	Qualcomm QCA9563
Flash	256MB	16MB
RAM	1024MB	128MB
Standard	IEEE802.11ax/ac/b/g/n	IEEE802.11ac/b/g/n
Frequency	2.4GHz+5.8GHz	2.4GHz + 5.8GHz
Wireless data rate	591Mbps+1238Mbps	300Mbps + 900Mbps
WAN	1 * 10/100/1000Mbps	1 * 10/100/1000Mbps
LAN	1 * 10/100/1000Mbps(Inside of shell)	1 * 10/100/1000Mbps
DC	-	DC:12V 1.5A
PoE Power	IEEE 802.3at 48V POE	IEEE 802.3at 48V POE
Lightning Level	Common mode: 6KV; Differential mode 2KV	Common mode: 6KV; Differential mode 2KV
Antenna	4*N type connector	Omni 5dBi antenna
RF Power	200mW	500mW
Water-proof Level	IP67	IP65
Operation Mode	AP	AP, Gateway, WISP, Repeater Working Mode
Wave 2.0	Support	Support
Distance	Based on connected antennas: omni 8dBi antenna: Up to 400 meters	Up to 400 meters
Firmware	OPENWRT Firmware	1. SDK Firmware 2. OPENWRT Firmware
QTY of users	200	Max: 128, Recommended: 100
Firmware Feature	1. Support Multi SSID up to 8 2. Supports intelligent load balance based on user 3. Support seamless roaming and low rate terminal access 4. Support Wi-Fi channel analysis 5. Support WLAN Controller Central Management and cloud server remote access / management	1. Support Multi SSID up to 8 2. Supports intelligent load balance based on user 3. Support seamless roaming and low rate terminal access 4. Support Wi-Fi channel analysis 5. Support WLAN Controller Central Management and cloud server remote access / management
Accessory	4*6dBi dual band omni antenna, User Manual, Install accessory, LAN cable	User Manual, Install accessory, LAN cable

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Wi-Fi Bridges



Next-Level Extension of Your Wireless Network Over Long Distances

OVERVIEW

Achieve next-level connectivity with the DuxNet Wi-Fi Bridges, designed for reliable point-to-point wireless links that seamlessly extend your network across long distances. Ideal for environments where wired connections are impractical, they provide a robust and secure connection between two or more locations, making them perfect for linking buildings, remote offices, or outdoor facilities. Combining cutting-edge technology with ease of installation, DuxNet Wi-Fi Bridges deliver high-speed, next-level performance for all your wireless bridging needs.

MAIN FEATURES

- **Long-Range Connectivity:** DuxNet Wi-Fi Bridges are designed for point-to-point links over extended distances, ensuring stable, high-speed wireless connections between remote locations, even across challenging terrain.
- **High-Speed Data Transmission:** With advanced wireless technology, these bridges support high-throughput data transfer, ensuring fast and reliable communication between sites, ideal for bandwidth-heavy applications like video surveillance or large file transfers.
- **Easy Installation:** Engineered for quick deployment, DuxNet Wi-Fi Bridges are easy to set up with intuitive alignment tools and PoE support, eliminating the need for complex wiring between linked locations.
- **Weatherproof Durability:** Built to withstand harsh outdoor conditions, these bridges are housed in rugged enclosures, ensuring continuous performance even in extreme weather, making them ideal for outdoor or industrial environments.
- **Secure & Reliable:** Equipped with advanced encryption and interference mitigation technologies, DuxNet Wi-Fi Bridges provide secure, next-level reliability for mission-critical links, ensuring your data stays protected during transmission.
- **Scalable Solution:** Whether linking two buildings or expanding to a multi-location network, the DuxNet Bridges range scales easily, providing a flexible, future-proof solution that grows with your business needs.

Dual Band 5GHz Series

OUTDOOR WI-FI BRIDGES

Model Name	DUX2200CPE	DUX512CPE	DUX450CPE
			
Chipset	Qualcomm QCA9563	Qualcomm QCA9563	MTK MT7628
Flash/RAM	16MB/128MB	16MB/128MB	8MB/64MB
Standard	IEEE802.11ac/b/g/n	IEEE802.11ac/a	IEEE802.11ac/a
Frequency	2.4GHz + 5.8GHz	5.8GHz	5150~5825MHz
Wireless data rate	300Mbps + 900Mbps	900Mbps	900Mbps
WAN	1*10/100/1000Mbps	1*10/100/1000Mbps	1*10/100Mbps
LAN	-	1*10/100/1000Mbps	1*10/100Mbps
Operation Switch	Without	With	With
LED Display	Without	Without	With
PoE Power	IEEE 802.3at 48V POE	IEEE 802.3af 48V POE	24V Passive PoE
Antenna	1. 2.4GHz:2*12dBi Panel Antenna 2. 5GHz:2*15dBi Panel Antenna	14dBi Panel Antenna	14dBi Panel Antenna
RF Power	500mW	300mW	300mW
Lightning Level	-	Common mode: ±2KV; Differential mode ±1KV	Common mode: ±2KV; Differential mode ±1KV
ESD Level	-	Contact: ±6KV, Air: ±8KV	Contact: ±6KV, Air: ±8KV
PTP Distance	5KM	5KM	4KM
Operation Mode	AP, Repeater Mode	AP, Repeater Mode	AP, Repeater Mode
Firmware	1. SDK Firmware 2. OPENWRT Firmware	1. SDK Firmware 2. OPENWRT Firmware	SDK Firmware
Firmware Feature	1. Central Management 2. Support Enterprise security : WPA, WPA2, 802.1x RADIUS 3. Auto Channel available	1. Central Management 2. Simple setup by LED display and Switch on device 3. Support Enterprise security : WPA, WPA2, 802.1x RADIUS 4. Auto Channel available	1. Central Management 2. Simple setup by LED display and Switch on device 3. Support Enterprise security : WPA, WPA2, 802.1x RADIUS 4. Auto Channel available
Accessory	User Manual, Install accessory, LAN cable	User Manual, Install accessory, LAN cable	24V PoE power adapter, installation accessory, LAN cable

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Wi-Fi Gateway and Controller



Next-Level Control and Management of Your Wireless Network

OVERVIEW

Unlock next-level control and management with the DuxNet Gateway and Controller, the central hub for managing your entire DuxNet Wi-Fi network. Designed to simplify network administration, this powerful solution allows you to monitor, configure, and optimise your DuxNet Indoor and Outdoor Access Points, Wi-Fi Bridges, and more from a single interface. Whether you're managing a small office or a complex multi-site network, the DuxNet Gateway and Controller ensures seamless, high-performance connectivity across all your devices, delivering the next-level efficiency your network needs.

MAIN FEATURES

- **Centralised Management:** The DuxNet Gateway and Controller provide a single platform to manage all your DuxNet devices, streamlining network configuration, monitoring, and troubleshooting, regardless of the network's size or complexity.
- **Next-Level Performance Optimisation:** With advanced performance analytics and real-time monitoring, this controller helps you optimise your network for maximum efficiency, reducing bottlenecks and ensuring smooth data flow across your entire setup.
- **Easy Scalability:** As your network grows, the DuxNet Gateway and Controller can effortlessly scale to manage additional access points, bridges, and devices, providing the flexibility to expand without overhauling your infrastructure.
- **Seamless Roaming:** The DuxNet Controller ensures uninterrupted connectivity for users moving between access points, enabling seamless roaming for devices without dropping connections, perfect for environments with heavy foot traffic or mobile users.
- **Enhanced Security:** With built-in advanced security features, including network encryption and access control, the DuxNet Gateway and Controller safeguard your network against unauthorised access and threats, keeping your data secure at every level.
- **User-Friendly Interface:** The intuitive dashboard and management interface make it easy to configure and manage network settings, even for non-technical users, ensuring that your next-level network performance is always within reach.

Model Name	DUXAPC64

GATEWAY & CONTROLLER



Protocol	Capwap, manage FIT AP
Chipset	MTK MT7621
Flash	16MB
SSD	128MB
Gigabit WAN	1
Gigabit LAN	4
Power	AC:100~240V
USB 2.0	-
Console Port	-
Max QTY of managed AP	64
Operation Mode	AP Controller
Smart QoS	Support
Ethernet Backup	Support
Multiple ISP Network	Support
Ethernet Superimposed	Support
Static Routing	Support
Behavior Control	Support
VPN dial up	Support
WAN port VLAN	Not Support
3rd Radius Server	Not Support
Cloud Server	Support
Security	like TCP/UDP/ICMP Flooding, IP/MAC/URL/Web filtering functions, Ping of Death and other related threats, Loop Detection, ARP defense
AP Management	Auto AP discovery, Zero Config or Central config the SSID, password, RF power,IP address, channel, AP location...
Remote Control	Remote access into manage-ment WEB Interface remotely or through cloud server
Portal Authentication	PPPoE Auth, MAC Auth, Portal Auth including member auth and one-click auth, 3rd Party radius auth
Accessory	QIG, Power Adapter, Install accessory
Packing	Gift box: 50*28.5*8cm; 5PCS/CTN, CTN Size: 51.5x42.5x30cm

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