DUXNET

PRODUCT DATASHEET

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

*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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