

30KM 6GHz Industrial Grade Wireless Bridge



DESCRIPTION

The NODEXON NX-B28M6G-30KM is a high-performance, high-speed industrial-grade wireless bridge designed to provide stable and reliable long-range connectivity in demanding outdoor environments. Featuring advanced WiFi 6E technology and a transmission distance of up to 30 KM, it delivers fast, efficient, and consistent data transmission for professional networking applications.

With its extended transmission distance, strong penetration capability, and robust anti-interference performance, the NX-B28M6G-30KM ensures dependable wireless communication even in challenging conditions. It is ideal for CCTV surveillance, industrial networking, remote connectivity, building-to-building communication, long-distance network expansion, and other professional wireless networking applications.

FEATURES & BENEFITS

- ▶ Adopting the new generation WiFi 6E standard
- ▶ 6GHz operating frequency band, wireless rate 2402Mbps
- ▶ External 29dBi parabolic antenna, meeting 30KM transmission requirements
- ▶ Dual Gigabit Ethernet ports + SFP optical port combination, supporting optical fiber networking
- ▶ Fully cast aluminum housing, IP67 dust and water proof, -40°C~70°C wide operating temperature
- ▶ Provides two power supply modes: 48V PoE and 12V DC, making construction more flexible
- ▶ Supports pole/wall mounting installation, easy to install and maintain



30KM



Tri-Band
6G



Full Gigabit
Ethernet
Port



PoE/DC
Power
Supply



Fat &
Skinny



Seamless
Roaming



Commercial
Cloud
Platform



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HARDWARE SPECIFICATION

MODEL	NX-B28M6G-30KM
6GH Frequency Band	5.925GHz~7.125GHz
6GHz WiFi Protocol	802.11 a / n / ac / ax
Antenna	Built-in 29dBi directional panel antenna.
Wireless Speed	6GHz band delivers up to 2402Mbps access rate, PTP actual measured throughput exceeds 900+ Mbps
Tx Power	<24±2dBm
Interface and Button	1/10/100/1000Mbps Self-adaptive WAN Port, Supports PoE 48V power supply 1 Gigabit SFP Port 1/10/100/1000Mbps Self-adaptive LAN Port
Button	Reset Button (Press and hold for 6-10 seconds to restore factory default settings)
Status Indicator	PWR: Power Indicator (Green: Steady on when powered; OFF when unpowered) SFP: Gigabit Optical Port Indicator (Green: OFF when disconnected; Steady on when linked; Flashes during data transfer) WAN: Gigabit WAN Port Indicator (Green: OFF when disconnected; Steady on when linked; Flashes during data transfer) LAN: Gigabit LAN Port Indicator (Green: OFF when disconnected; Steady on when linked; Flashes during data transfer) WiFi: Wireless Status (Green: Steady on when enabled & connected; Flashes when idle; OFF when disabled) L: Signal Level (Low) (Green: Steady on if ≥ threshold; OFF if < threshold) M: Signal Level (Mid) (Green: Steady on if ≥ threshold; OFF if < threshold) H: Signal Level (High) (Green: Steady on if ≥ threshold; OFF if < threshold)
Power Supply	DC2.0 12V 1.5A, PoE 802.3at
Power Consumption	<10W
Product Dimensions	218×243×64mm
Net Weight	1.74kg
Work Environment	Working: -40°C to 70°C Storage: -40°C to 70°C Humidity: 5%~95% (Non-Condensing)



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SOFTWARE SPECIFICATION

MODEL	NX-B28M6G-30KM
Status Display	Displays work mode, Network topology, Signal strength, CPU/memory usage, Real-time traffic rate, Device description LAN info, Wireless info, Bridge info, WAN info (gateway/WISP).
Work Mode	AP Mode, Bridge Mode, WISP Mode, Gateway Mode
CPE Management (AP/Bridge Mode)	Self-management function for bridges based on the proprietary GHCP protocol
Wireless Features	SSID Broadcast, Hidden SSID, Channel Selection, Encryption Method (NONE, WPA3-SAE, EAP), Max Client Limit (0-64), Virtual AP Support (2) Country Code, Client Isolation, DFS, Radio Mode (2×2 MIMO/SISO) MAC Access Control: Supports Blacklist/Whitelist Mode to restrict specific MAC addresses from accessing WiFi Scheduled Shutdown BSSID Lock, Auto-Restart Policy (Watchdog Mechanism)
Security Center	URL Filtering IP Address Filtering MAC Address Filtering Port Mapping DMZ
Network Features	IPv4/IPv6 Port Settings Ping Traceroute LLDP Settings Cloud Platform Static DHCP: Binds MAC addresses to fixed IPs, supports 32 rules Remote Login, VPN (IPsec/PPTP/L2TP) Static Routing: Supports 16 routing rules
Device Management	Configuration Management Scheduled Reboot Firmware Upgrade NTP, Manual & Host Time Synchronization System Log, Remote Log HTTP, Telnet, SSH, SNMP Traffic Control Settings Time Group/IP Group Management DDNS Settings



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ORDER INFORMATION

PART NUMBER	DESCRIPTION
NX-B28M6G-30KM	NODEXON 30KM 6GHz Industrial Grade Wireless Bridge

Note:

**Unless TAA compliance is explicitly requested and confirmed per line item prior to order processing, standard commercial (non-TAA) equivalents or general inventory items may be supplied.*

To maintain high quality and continuous improvement, the vendor reserves the right to alter product specifications at any time without prior notification.

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