

16KM 6GHz Industrial Grade Wireless Bridge



DESCRIPTION

The NODEXON NX-B28M6G-16KM is a high-performance, high-speed industrial-grade wireless bridge designed to provide reliable long-range connectivity in demanding environments. Featuring advanced WiFi 6E technology and a transmission distance of up to 16 KM, it delivers fast, stable, and efficient data transmission for professional outdoor and industrial networking applications.

With its extended transmission distance, strong penetration capability, and robust anti-interference performance, the NX-B28M6G-16KM 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 mission-critical wireless applications.

FEATURES & BENEFITS

- Adopting the new generation WiFi 6E standard
- 6GHz operating frequency band, wireless rate 2402Mbps
- Built-in 20dBi directional antenna, meeting 16KM transmission
- 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



16KM



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-16KM
6GH Frequency Band	5.925GHz~7.125GHz
6GHz WiFi Protocol	802.11 a / n / ac / ax
Antenna	Built-in 20dBi 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	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 (hold 6-10 seconds to restore factory defaults)
Status Indicator	PWR: Power indicator (Green: Solid on when powered; Off when unpowered). SFP: Gigabit SFP port indicator (Green: Off when disconnected; Solid on when connected; Blinking during data transmission). WAN: Gigabit WAN port indicator (Green: Off when disconnected; Solid on when connected; Blinking during data transmission). LAN: Gigabit LAN port indicator (Green: Off when disconnected; Solid on when connected; Blinking during data transmission). WiFi: WiFi indicator (Green: Solid on when WiFi is enabled and connected; Blinking while searching; Off when disabled). L: Signal strength indicator (Green: Solid on if ≥ set threshold; Off if < threshold). M: Signal strength indicator (Green: Solid on if ≥ set threshold; Off if < threshold). H: Signal strength indicator (Green: Solid on if ≥ set threshold; Off if < threshold).
Power Supply	DC2.0 12V 1.5A, PoE802.3at
PowerConsumption	<12W
Product Dimensions	218×243×64mm
Net Weight	1.53kg
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-16KM
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)
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-16KM	NODEXON 16KM 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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