

6KM Commercial-Grade Wireless Bridge



DESCRIPTION

The NODEXON NX-BE300-6KM is a high-performance outdoor long-range wireless bridge designed to provide fast, stable, and reliable wireless connectivity over distances of up to 6 KM. With its extended transmission range and strong penetration capability, it delivers consistent data transmission even in challenging outdoor environments.

Featuring superior anti-interference performance, the NX-BE300-6KM helps maintain a stable and reliable wireless connection in areas with signal interference. It is an ideal solution for CCTV surveillance, point-to-point networking, building-to-building communication, industrial applications, and other long-distance outdoor wireless network requirements.

FEATURES & BENEFITS

- Quad Gigabit Ports, 867Mbps @5GHz Band
- Built-in high-frequency board antenna, supports 6KM wireless transmission
- Flexible 48V PoE/48V DC power supply; WAN port supports 802.3af/at/bt, LAN ports supports 802.3af/at
- Built-in TVS protection, nanosecond-level surge and lightning protection on ports
- IP65 dust and water resistance, UV-resistant outdoor housing, operates from -30°C to 55°C
- Easy master/slave configuration via toggle switches
- Pole/wall mountable, remote management via cloud platform and APP



6KM



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-BE300-6KM
5GHz Operating Frequency Band	5.150GHz~5.850GHz
5GHz WIFI Transmission	802.11 a / n /ac wave2
Protocol Wireless Speed	867Mbps
Antenna	Built-in 14dBi directional high-frequency board antenna
5GHz Wireless power	< 24± 2dBm
Interface (WAN)	1×10/100/1000M Self-adaptive WAN Port, Supports 48V (IEEE802.3 bt/af/at) PoE input
Interface (LAN)	3×10/100/1000M Self-adaptive LAN Ports, Supports 48V (IEEE802.3 af/at) PoE output
Power Supply	PoE 48V, DC 48V
Max Power Consumption	<60W
RST Button	hold 10 seconds to restore factory defaults, Press for 1 second to initiate pairing
Slide Switch	One-touch master/slave configuration (H/C)
Status Indicator	SYS LED, WAN Port LED, LAN Port LED, 5G WiFi LED, Signal Strength LEDs ×4 (left orange led: POE, right green: Link)
Product Dimensions	190×110×50mm
Net Weight	0.3875kg
Work Environment	Working: -30°C to 55°C Storage: -40°C to 70°C Humidity: 5%~95% (Non-Condensing)
IP-rated Protection	IP65
ESD	Contact discharge: ±6kV, Air discharge: ±8kV
Surge	Differential mode: 1kV, Common mode: 2kV



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SOFTWARE SPECIFICATION

MODEL	NX-BE300-6KM
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 (2x2 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-BE300-6KM	NODEXON 6KM Commercial-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.

CONNECT WITH US

USA

☎ +1 (877) 677-4040
✉ info@microlinknet.com
📍 1178 Broadway, 3rd
Floor, Suite 318B, New
York, NY 10001

EUROPE

☎ +44 7466717286
✉ uk@microlinknet.com
📍 Fairbourne Drive,
Atterbury,
Buckinghamshire, UK

MIDDLE EAST

☎ +971 44 558570
✉ mena@microlinknet.com
📍 Boulevard Plaza Tower
One, Level 3, Downtown
Dubai, UAE

