

# 450Mbps Enterprise 5G Outdoor Bridge

## NB50



### OVERVIEW:

The NB50 is a high-performance enterprise-class outdoor digital bridge that supports 802.11AC technology. It operates in the 5.8G wireless band. It has unique digital tube pairing technology, no computer configuration, easy to finish point to point, point to point (less than 8 points) equipment matching. With 100M network interface, it can support up to 450Mbps wireless access speed in 5G 802.11AC mode. The power supply mode is flexible, supporting 24V POE network cable power supply and 12V 1A DC local power supply, and the distance of the network wireless supply can reach 50-70 meters (Related to the material of the netting twine).The outdoor IP65 is designed for windbreak, rain protection, dust-proof and sun protection, and it is easy to adapt to all kinds of harsh outdoor environments. The device is equipped with 14dBi dual intensifying plate antenna, and its installation is simple and fast. It has high performance, high gain, high receiving sensitivity, high bandwidth and so on. It greatly enhances the performance and stability of wireless transmission, and is widely used in medium and short range video transmission and data transmission.



## HARDWARE FEATURES:

- **Cost-effective hardware solution**

Mediatek master chip, industrial-grade circuit design, support IEEE802.11AC protocol, can provide 450Mbps wireless access speed and 100Mbps Ethernet exchange processing speed. Excellent anti high and low temperature design, fully protect user network data in the extreme environment, real-time, long-term, stable and efficient transmission, enhance user experience.

- **Powerful wireless transmission capability**

The circuit design with high power and high reception sensitivity greatly enhances the distance of wireless transmission up to 3KM and improves the performance and stability of wireless transmission.

- **Pairing simple and efficient**

Without the need of network professional knowledge, without computer operation, easy to dial code and adjust the main and slave devices digital tube to the same value to complete point to point, point to multi point (within 8 points) matching work.

- **Power supply is optional**

The NB50 not only supports POE remote network cable power supply, but also supports 12V 1A DC local power connection to meet the needs of various scenarios, reduce construction costs, and flexibility select the power supply method.

- **Small fashion, easy to install**

Small appearance vogue, installation is simple, flexible wall hanging, a variety of installations, such as suction a top without affecting the original design, on the basis of greatly reduce the construction difficulty of construction personnel, and improve the construction efficiency.

A background image of a living room. On the left, there is a light-colored sofa with a patterned pillow. On the right, there is a wooden TV stand with a television, a game controller, and a wireless router on top. The room is brightly lit, possibly from a window with sheer curtains.

## SOFTWARE FEATURES:

- **Simple Overview of the equipment**

Login the device in the WEB browser and you can check the information of the receiver, emitter, system, port, and real time flow in real time. A simple and clear graphical interface allows the user to know the working state of the device in real time.

- **Humanized unified management & setting**

The equipment has the function of AC controller. The cable connection equipment can access the 169.254.254.254 through the WEB browser. It can manage all the LAN equipment, unified configuration and wireless optimization. To solve the problem that LAN Wireless Bridge is difficult to manage, it greatly simplifies the work of network administrators.

- **Fast setting & powerful wireless optimization**

The user does not need to know too much wireless knowledge, without too much professional knowledge, and can realize the pairing of point to point, point to point (within 8 points) in a few steps. Simple settings can achieve wireless optimization, and improve the quality and effectiveness of link transmission.

- **Ensure the user's network security at all times**

The VAP signal of the device are all advanced WPA-PSK&WPA2-PSK encryption strategy, and the bridge signal wireless terminal cannot search. VAP signals support SSID hiding, protect users' network from hackers' attacks, and ensure users' data security.

- **Easy adaptation to a variety of network environments**

The device support gateway mode and bridge transmission mode. Gateway mode supports automatic acquisition, PPPoE and static IP, which is easy to adapt to all kinds of network

environment needs.

• **Unique mobile terminal management mode**

The device supports 5G VAP signal emission and mobile terminal HTML5, and mobile phone and flat connection signal can easily log on to 169.254.254.254 to configure the device.

• **Cloud Management**

The unique cloud management only needs the network where the device is connected to the Internet, and it can be easily configured to access the configuration devices everywhere.

• **Simple and efficient system configuration**

Network time, access password modification, local backup/restore settings, restore factory settings, local/online upgrade, immediate/timed restart, simple and clear features allow you to easily complete the system settings of the device and enhance the robustness of the device.

**SPECIFICATION:**

Hardware	
Model	NB50
Main chip	MTK,450Mbps High Performance Enterprise Chip
Frequency	560MHz
Wireless technology	5G, 450M, 802.11ac MIMO technology
Memory	64MB DDR RAM
Flash	8MB
Network interface	2*10/100Mbps Adaptive Network Interface
Button	1*Reset, Press and hold for 15 seconds to restore factory settings
Indicator light	Signal SIG indicator, ETH network interface status indicator, power indicator lamp, digital tube indicator lamp.
Power supply	24V 0.5A non-standard POE power supply, DC 12V 1A, power consumption <10W

Working conditions	Temperature:-40°C ~ +55°C(work),-40°C ~ +70°C(Storage) Humidity (non-condensing): 5% to 90% (working), 5% to 95% (storage)
Product size	Length 188mm*Width 188 mm*Height 33 mm
Product weight	N/A
Antenna	Built-in dual polarized high gain directional antenna (14dBi plate wave angle of 60 degrees, 60 degrees vertical wave width)

Radio frequency characteristics	
Frequency Range	ISM band: 4.900GHz ~ 5.850GHz
Channel distribution	5G: 36、40、44、48、52、56、60、64、149、153、157、161、182、186、190、194
Modulation method	OFDM = BPSK,QPSK,16-QAM,64-QAM;DSSS = DBPSK,DQPSK,CCK
Output Power	11a @54M:25±2DB, @6M:27±2DB 11n @MCS7:23±2DB, @MCS0:25±2DB
Receiver sensitivity	11a: 72dbm@54Mbps, -90dbm@6Mbps 11n: -70dbm@MCS7, -90dbm@MCS0s
EVM	802.11n: ≤-28 DB 802.11a: ≤-25 DB
Frequency deviation	±20ppm

Fat AP version software features	
Operating mode	Main AP mode, Slave AP mode
Networking mode	Point to point and point to multipoint (within 8 points)
Management method	Chinese WEB remote management
Internet	Bridge: static IP/ DHCP Gateway: static IP/ DHCP/PPPoE
Bridge Management	Free binding cloud account, real-time remote management device.
Wireless management	Bridge configuration / advanced configuration /WiFi settings

System	Time zone time configuration, login password modification, backup / restore, restart / timed restart.
System update	Based on WEB browser local update, online update

**Product Pictures:**

