

AC650 Nano Wi-Fi Bluetooth USB Adapter

Model: MA20NB



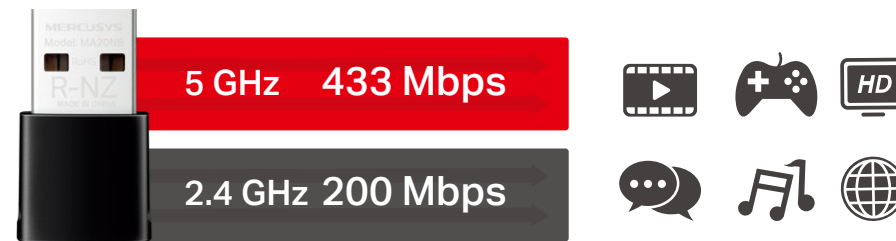
// Highlights

- 433 Mbps (5 GHz) + 200 Mbps (2.4 GHz) Dual Band Wi-Fi†
- Reliable Bluetooth 5.0
- Plug and Play without CD
- Enhanced WPA3 Security‡



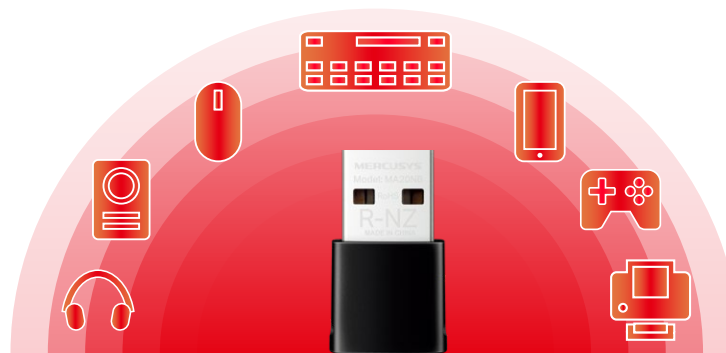
// AC650 Dual Band Wi-Fi

MA20NB receives Wi-Fi signals on two separate bands for all your online needs. Choose the 200 Mbps on 2.4 GHz band for surfing, emailing and social media, or switch to 433 Mbps on 5 GHz for gaming, streaming and large file downloads.[†]



// Bluetooth 5.0 Supported

MA20NB makes your PC Bluetooth-capable with ultra-fast Bluetooth 5.0 which achieves more stable connection, farther range and faster transmission speeds. Just connect your Bluetooth devices to your computer and enjoy with ease.[^]



// Specifications

Wireless Specifications

Wi-Fi Speed	Wi-Fi Standards	Frequency	Wireless Security	Reception Sensitivity
433 Mbps on 5 GHz + 200 Mbps on 2.4 GHz†	IEEE802.11 a/b/g/n/ac	5 GHz, 2.4 GHz	WEP, WPA/WPA2/WPA3, WPA-PSK/WPA2-PSK‡	5 GHz: 11ac VHT80 MCS9: -60dBm 11ac VHT80 MCS0: -84dBm

Physical Specifications

Interface	Dimensions (W x D x H)	Antenna
USB 2.0	26.9 × 16.1 × 7.6 mm (1.06 × 0.63 × 0.30 in)	Internal Antenna

2.4 GHz:
11n HT40 MCS7: -70dBm
11n HT40 MCS0: -88dBm

Others

System Requirements	Package Contents	Environment
Windows 11/10 (32/64 bit)§	AC650 Nano Wi-Fi Bluetooth USB Adapter (MA20NB) Quick Installation Guide	Operating Temperature: 0°C~40°C (32°F ~104°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing

For more information, please visit www.mercusys.com.

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†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and quantity of connected devices are not guaranteed and will vary as a result of network conditions, AP limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and AP location.

‡Use of WPA3 requires APs to also support the corresponding feature.

§Functionality may be restricted on some operating systems and platforms. Please try to update the device's driver for feature compatibility.

ΔSeveral new features are introduced in the Bluetooth Core Specification 5.0 Release, including 2× faster speed and 4x broader coverage compared with Bluetooth 4.2. Images may differ from your actual product.

*Actual network speed may be limited by the rate of the product's USB port, PCI Express Interface, Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.