



MG11

Dual Band WiFi Nova Gateway

Keep BLE data moving through busy networks with dual-band WiFi.

MG11 is a compact indoor BLE to WiFi gateway. Dedicated processors keep scanning separate from upload, forwarding filtered tag and sensor data to the cloud over 2.4 GHz or 5 GHz WiFi 6.



Bluetooth® 6.0
Wi-Fi 6 (2.4 GHz & 5 GHz)

KEY FEATURES

- Scan While Uploading**
MG11's dual-chip architecture keeps nRF54L15 BLE scanning separate from WiFi uploads, with capacity for about 270 advertising packets/s.
- Dual-Band WiFi Uplink**
Use 2.4 GHz for wider coverage or 5 GHz to avoid congestion. MG11 switches bands when interference disrupts uploads.
- Plug and Play**
Connect MG11 to USB power and existing WiFi, adding or relocating BLE collection points without installing Ethernet at each location.
- Flexible BLE Modes**
MG11 supports LE 1M, LE 2M extended advertising, and 125 kbps LE Coded PHY for compatibility, speed, and range.
- Cleaner Cloud Data**
MAC and RSSI rules filter unrelated devices and weak signals before upload, reducing unnecessary WiFi traffic and server records.
- Channel Sounding Ready**
MG11 includes Bluetooth 6.0 hardware with Channel Sounding capability for developing more precise indoor ranging and proximity applications.

IDEAL FOR INDOOR IOT DEPLOYMENTS ►



Hospitals

Relay BLE broadcasts from tagged equipment so staff can locate nearby assets faster.



Office Buildings

Send occupancy, temperature, and humidity sensor data to building systems.



Hotels

Upload leak and temperature sensor data so staff can catch room issues earlier.



Temporary Events

Receive BLE badge and exhibit tag broadcasts, then relocate MG11 as layouts change.

SPECIFICATIONS ►

Bluetooth Version	Bluetooth® LE 6.0
Bluetooth Chipset	nRF54L15
BLE Scan Range	Approx. 150 m in open space
BLE Scan Capacity	Approx. 270 advertising packets per second
Wi-Fi Standard	IEEE 802.11 b/g/n/ax
Wi-Fi Bands	2.4 GHz and 5 GHz
Wi-Fi Security	WEP/WPA_PSK/WPA2_PSK/WPA_WPA2_PSKWPA3_PSK/WPA2_WPA3_PSK
TX Power	+20 dBm
Operating Temperature	-20 °C to 55°C
Operating Humidity	10%-95% RH, non-condensing
Power Supply	USB, DC 5 V / 1 A
Installation	USB plug and play
Power Control	The device turns on when connected to power and turns off when disconnected.
Firmware updates	OTA and LAN

