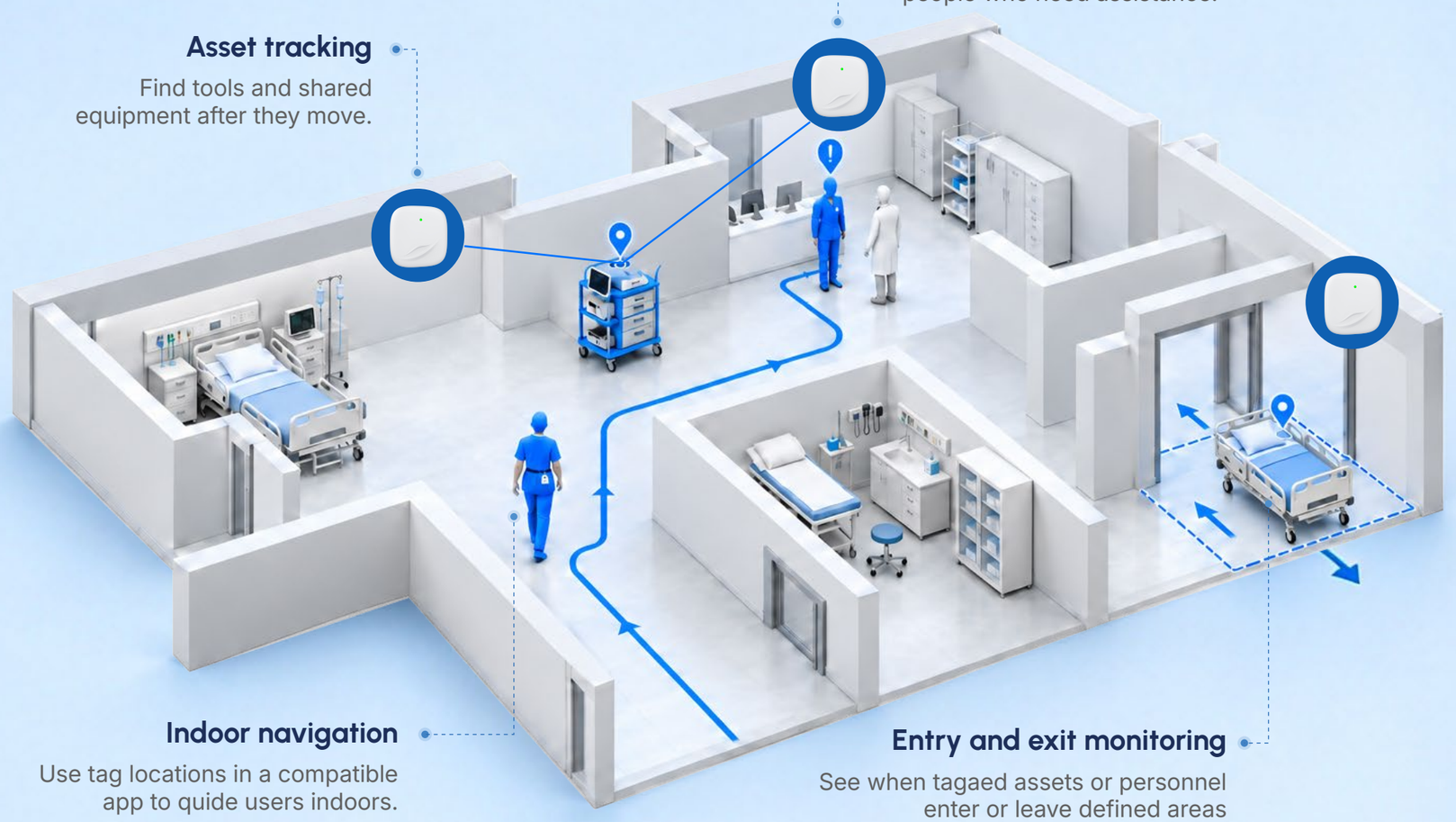
MG10 AoA Positioning Locator

The MG10 is a next-gen high-performance indoor AoA (Angle of Arrival) positioning locator designed by Minew. Its optimized antenna and hardware design reduces signal loss, allowing it to receive tag signals over greater distances. It outputs raw IQ data and BLE advertising data for custom algorithm development, supporting indoor positioning with an accuracy of 0.1 to 1 m. It also collects and uploads sensor data from compatible Bluetooth AoA devices.



Learn more

Bluetooth®



Raw IQ & BLE Advertising Data

Access raw IQ data for your own positioning algorithms, plus Bluetooth advertising data for tag identification and status checks.

Open API & Configuration

Adjust positioning parameters, switch protocols, and configure data payloads to suit your deployment.

0.1 to 1 m Positioning Accuracy

An advanced antenna array supports precise positioning to locate assets and personnel needing assistance.

Sensor Data Collection & Upload

MG10 collects temperature, humidity, and other sensor data from compatible Bluetooth AoA devices and uploads it over Ethernet.

Ready-to-Use Tags

Get started with Minew's extensive tag ecosystem, offering compatible asset tags and wearables for a wide range of applications.

Built-In Checks for Easier Setup

Tilt sensing and LED feedback help verify alignment during setup, while orientation and tilt data support positioning corrections.

The MG10 Series for your positioning project

From raw IQ data for your own algorithms to angle data output and onboard positioning, the MG10 Series offers different models to match your deployment needs.



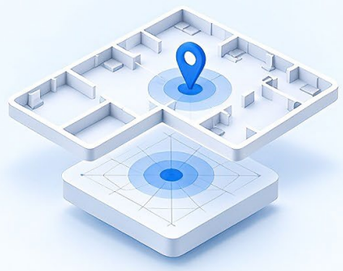
Building your own positioning engine?

Use MG10's raw IQ data to develop your own algorithm. MG10 handles signal collection, so you can focus on software without developing receiver hardware.



Working with limited network bandwidth?

MG10 can calculate signal arrival angles before forwarding data, reducing network traffic. Your positioning software then calculates locations.



Want MG10 to calculate positions for you?

A built-in positioning engine calculates coordinates on MG10, reducing algorithm development work and removing the need for a separate positioning server.

BLE data collection alongside positioning

Selected models also act as BLE gateways, collecting and forwarding compatible BLE broadcasts alongside positioning data.

Specifications

Model	MG10
Housing Material	ABS
Positioning Accuracy	0.1 to 1 m
Data Interface	Ethernet
Operating Temperature	-20 to 70 °C
Operating Humidity	10% to 90% RH, non-condensing
Power Supply	PoE or DC
DC Input Voltage	12 to 54 V DC
Mounting Method	Ceiling mounting
Mounting Height	Recommended: 3 to 10 m

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