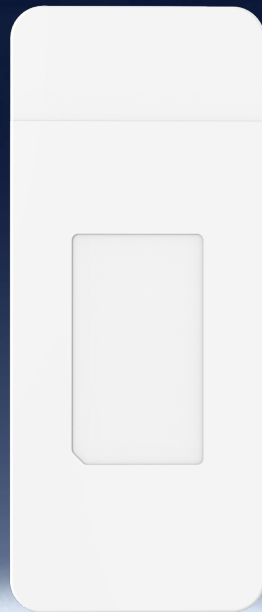




CONNECT EACH GLOBAL REACH

UG1 Mini Gateway --- Specification



Brief Introduction

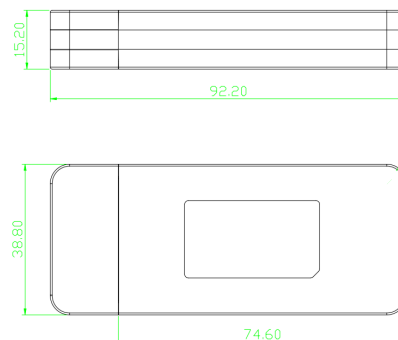
Minew UG1 Mini Gateway is designed for compact spaces including offices, wards, guest rooms and vending machines, dedicated to lightweight centralized management of a small number of Bluetooth devices.

It comes with a standard USB-A port for power supply, enabling flexible power access and compatibility with various power scenarios. Supported with Wi-Fi wireless bridging, it requires no network cabling and greatly streamlines deployment.

Featuring dual Wi-Fi and dual Bluetooth parallel communication, it ensures efficient data transmission and fast response. The compact and lightweight body allows flexible installation and effectively saves installation space.



● Appearance



● Product Dimensions

Highlight



For centralized management of lightweight Bluetooth devices



Powered via USB-A port



Supports Wi-Fi wireless bridging



Dual Wi-Fi & Dual Bluetooth synchronous parallel communication



Compact and portable design



High-efficiency transmission & rapid response



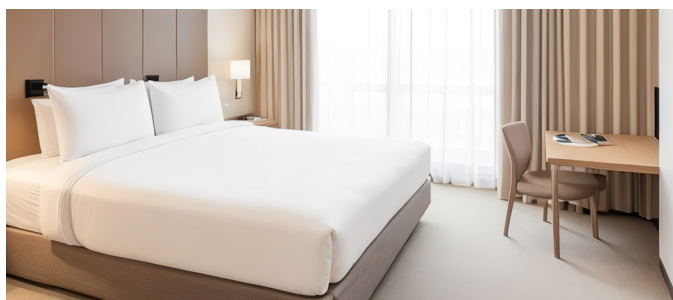
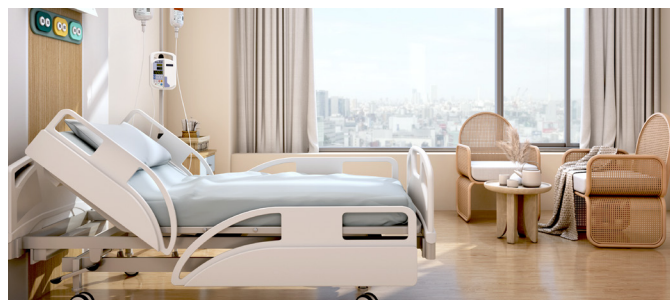
Flexible installation options



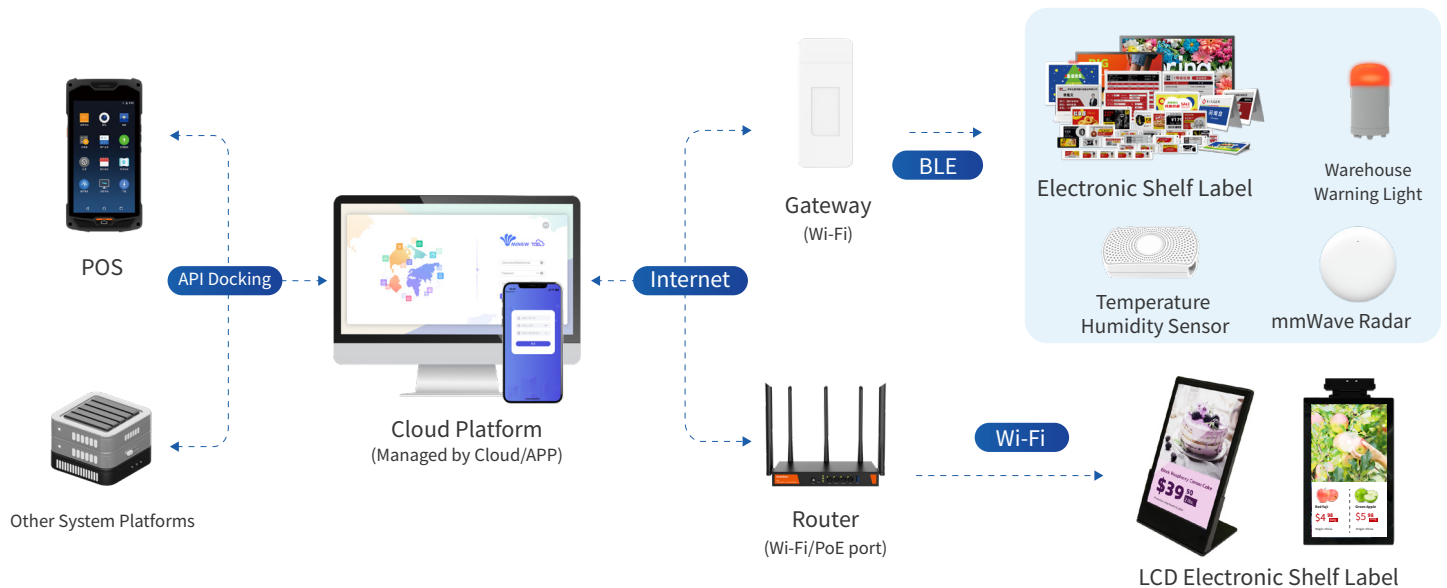
Suitable for compact spaces

Application Scope

Suits small spaces including offices, wards, guest rooms and vending machines. Enables unified management of electronic shelf labels, asset tags and Bluetooth sensors.



Logical Architecture



Specification

Structural Parameters

Dimensions	92.2 * 38.8 * 15.2 mm
Material	ABS
Color	White
Weight	52.1 g
Ports	USB-A plug

Electrical Parameters

Item	Parameters	Notes
Main Controller	MT7628N	
Bluetooth Module	NRF52833*2	
Memory	DDR2 128MB , Nand Flash 32MB	
Power Supply Mode	DC 5V 1A	
Average Power Consumption	2W	Maximum Power Consumption: 4W
Operating Temperature	-15~50°C	
Operating Humidity	5~95% RH (non-condensing)	

Radio Frequency Parameters

Wi-Fi Radio Frequency	
Item	Parameter
Wi-Fi Protocol Standard	MIMO IEEE 802.11 b/g/n/ac/ax
Wi-Fi Frequency Band	2.4GHz
Wi-Fi Modulation Mode	DSSS/CCK/OFDM/MCS0-MCS7
Channel Bandwidth	20M/40M (Auto)
Wi-Fi Transmit Power	20dBm (MAX)
Wi-Fi Receiver Sensitivity	-82dBm
2.4G Wi-Fi	2T2R 300Mbps
Network Protocol	HTTP (SSL/ TLS) / MQTT (SSL / TLS) / TCP
Wi-Fi Encryption	WEP WPA PSK, WPA2 PSK, WPA WPA2 PSK, WPA EAP, WPA2 EAP, WPA3 EAP, WPA3 SAE

Radio Frequency Parameters

Bluetooth Radio Frequency		
Item	Parameter	Notes
Bluetooth Standard	BLE 5.0	
Bluetooth Frequency Band	2.4GHz, 40channels	2400~2483.5MHz
Bluetooth Receiver Sensitivity	-89dBm(1Mbps) / -82dBm(2Mbps)	
Bluetooth Reception Bandwidth	1Mbps / 2Mbps	
Bluetooth Transmit Power	8dBm	
Number of Received Broadcast Packets	400 pps	Single Channel Scanning Only
Encryption Method	AES-128 bits	
Brush Configuration Distance	Range in open area: >30 meters	Results vary for different slave devices

Statement

● Declaration of Rights

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