

MESHLE Gateway – Wi-Fi - Bluetooth Mesh Gateway with Matter Connectivity

Model M602



FC CE RoHS LVD RED



The MESHLE Matter Gateway is a Bluetooth Mesh Gateway with a Wi-Fi module. It can be configured within a Bluetooth Mesh network and a local Wi-Fi network to connect both networks. This enables features like monitoring and controlling the mesh network over the internet or LAN, as well as commissioning with Matter to integrate into Amazon Alexa, Google Home, and Apple Home.

The Gateway functions like a regular Bluetooth Mesh node and is able to relay Bluetooth Mesh messages across the BLE mesh network.

With the additional QR-Display module (not included), the gateway offers guest control functionality, providing temporary access to the mesh network via a web interface (without the need to install an app).

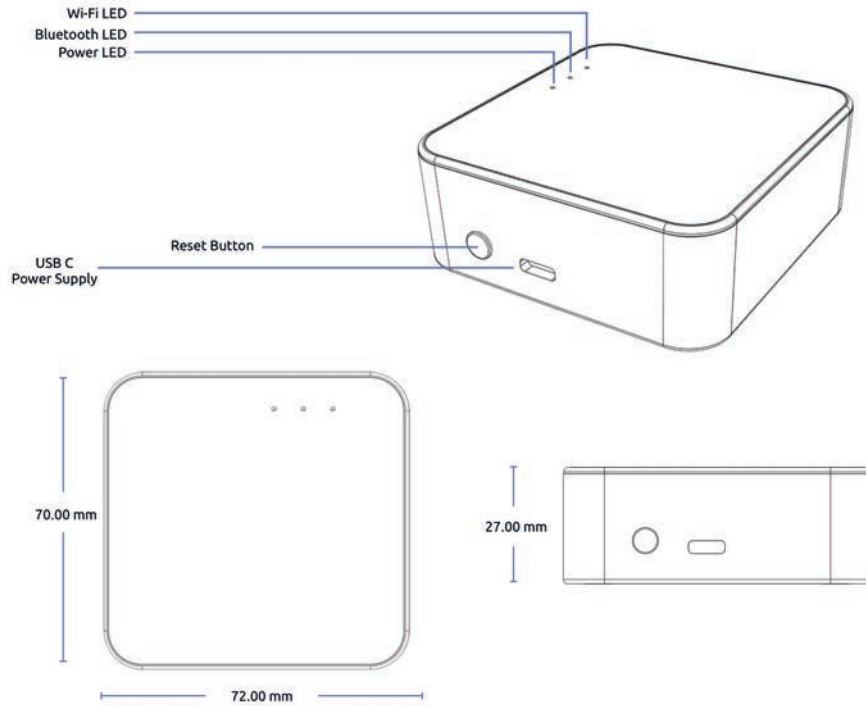
Features

- Wi-Fi to Bluetooth Mesh Bridge for bidirectional communication
- Simple configuration of the Wi-Fi credentials via Bluetooth
- Works as a regular Bluetooth Mesh node, relaying all mesh commands into the mesh network and LAN
- Secure communication – all communication is encrypted for both Wi-Fi and Bluetooth Mesh
- Multiple gateways with different cloud accounts can be installed in the same Bluetooth Mesh network
- Three LEDs for connection status identification
- USB-C power supply
- Communication with MESHLE Cloud (Germany) or local network via IP address

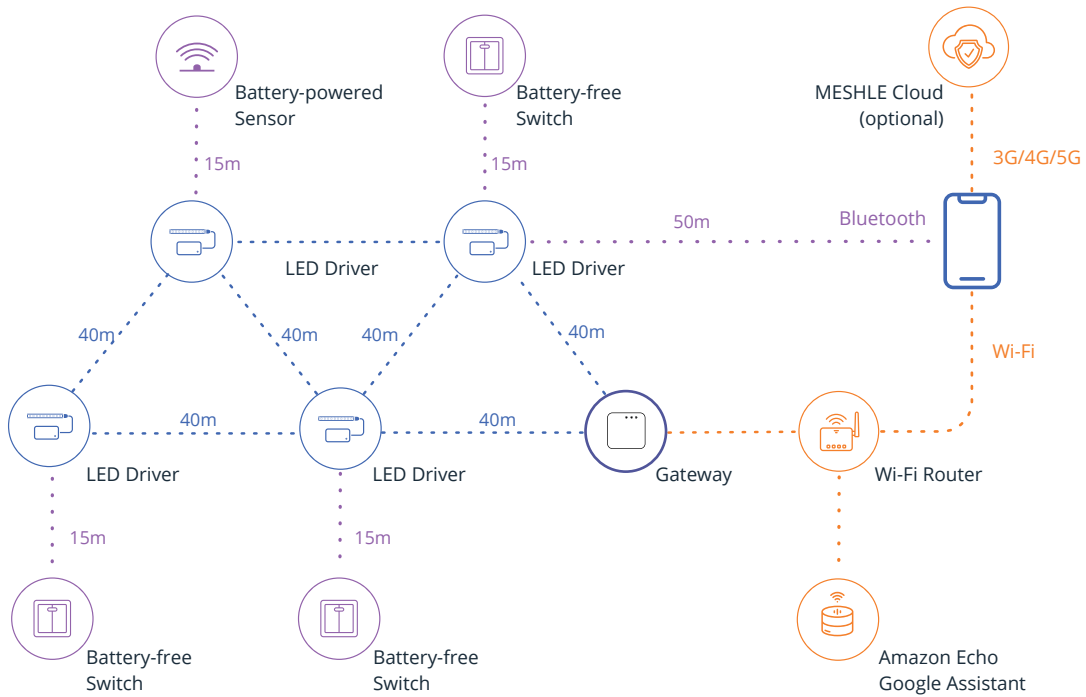
Technical Parameters

Physical characteristics		RF characteristics		
State indicator	3 LED (Wi-Fi/Bluetooth/Power)	Specification	Wi-Fi	Bluetooth
Reset button	1	Wireless frequency	2.412 ~ 2.484 GHz	2.402-2.480 GHz
Input voltage	USB C DC5V	Transmitting power	+21dBm	+8dBm
Input current	<1A	Signal channels	CH1-CH11	CH0-CH39
Operation temperature	-10° ... +55°	Transmitting Rate	802.11n up to 150 Mbps	Bluetooth 5: 2 Mbps, 1 Mbps, 500 kbps, 125 kbps
Operation humidity	10% ... 90% RH(noncondensable)	FCC	2AC7Z-ESPS-3WROOM1	SH6MDBT50Q
Wireless technology	Wi-Fi 802.11 b/g/n Bluetooth- single point / -mesh	IC	21098-ESPS-3WROOM1	8017A-MD-BT50Q
Type of antenna	Built in on-board antenna			

Technical Specifications



System Example



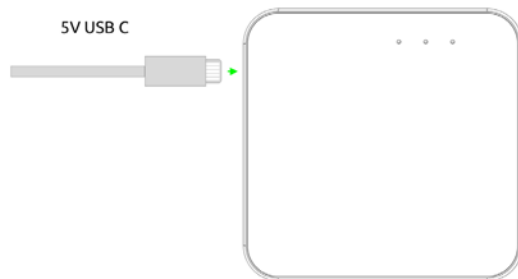
- Bluetooth Mesh Node
- Low-Power Friend Node
- Bluetooth Mesh Network
- Bluetooth Direct Connection
- Internet Connection



All MESHLE products and all devices labeled "Works with MESHLE" are compatible with each other and can be configured, managed and controlled via MESHLE App. Connection to the Cloud via MESHLE Gateway (optional). User can connect already existing Bluetooth mesh network to the MESHLE Cloud via MESHLE Gateway. This enables additional functions such as remote and voice control.

Wiring Diagram

Power Supply



Bluetooth Mesh Network Setup

New network

If this is the first device that is being setup follow the steps below:

1. Download MESHLE App and allow all required permissions and press "Start".
2. Power up the gateway, now it should be listed in the search view of the app
3. Select the listed item and follow the instructions: create password for the new network and configure the gateway
4. For every further device follow the steps described in "Add to existing network" starting from nr. 3.



Video Tutorial

Existing network

If new device have to be added to existing network follow the steps below:

1. Download MESHLE App and allow all required permissions and press "Start".
2. Select existing network and enter the network password once requested
3. After joining the network press plus button in the bottom right corner of the app and select "Device"
4. Power up the gateway, now it should be listed in the search view of the app
5. Select the listed item and follow the instructions to configure the controller (see screenshots on the next page)



Video Tutorial

Factory Reset

Device

1. Hold the reset button for 4 seconds.

Network

In order to delete the network, all of the devices configured in this network must be reseted to factory settings.

App Screens

