



Bluetooth Gateway

Real-time management and monitoring of your Charging Spot network

Powermat Low Energy Bluetooth Gateway

Powermat low energy Bluetooth (BLE) gateway provides real-time connectivity between the Powermat Charging Spots and the Powermat cloud. Using this interface Powermat enables customer to manage, monitor and collect insights from their wireless charging network.

Powermat gateway is built over the Raspberry Pi Zero W platform and encapsulates extended software capabilities.

Communication

Wireless: 802.11 b/g/n wireless LAN

Operating frequency: 2.4GHz

Bluetooth: Bluetooth 4.1

Bluetooth Low Energy (BLE)

Security

Networking interface - Secured web socket (server certificate) over TLS1.2 cipher

Connectivity & Range

Charging Spot per Gateway: min. 1, max. 30

Range: 10 meters (nominal)

Software & OTA capabilities

Software can be upgraded remotely

Configurable through Powermat Charging Spot Installer App over BLE interface

Input Power

Power port: Micro USB connector

Input Power 5V/500mA

Methods of connectivity:

(1) Wall connected Power supply

(2) Daisy Chain with Charging Spot with DC to DC converter

Mechanical

Minimal impact packaging, can easily be placed beside or inside Charging Spot casings

Outer dimensions: 79 mm x 37.7 mm x 15.1 mm

PCB dimension: 65mm x 30mm x 5mm

Regulatory Compliance

CE, FCC – Radiated and Conducted emissions;

Supported regions: US, Europe, ANZ, Canada, China, Hong Kong, Israel, India, Japan, Malaysia, Philippines, Singapore, South Africa, South Korea, Thailand;

RoHS, REACH