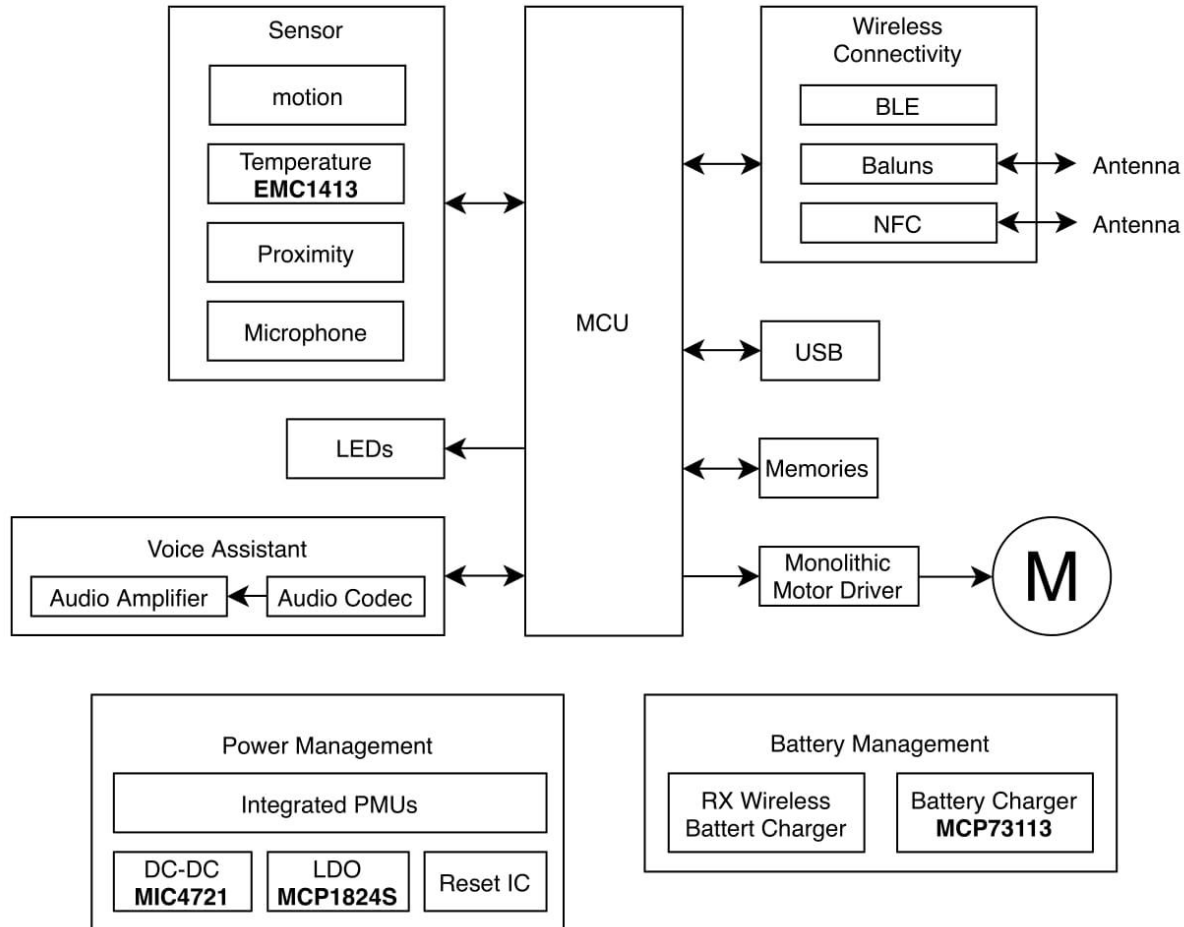


Portable Massagers - Block Diagram



Portable Massagers - Parts

Temperature Sensor

Product Name	Description	Features
EMC1413	Low Dropout Regulator	Programmable SMBus Address supports 45nm, 65nm, and 90nm CPU thermal diodes Automatically determines external diode type and optimal settings Resistance Error Correction $\pm 1^{\circ}\text{C}$ max accuracy ($20^{\circ}\text{C} < \text{TDIODE} < 110^{\circ}\text{C}$) 0.125 $^{\circ}\text{C}$ resolution

Battery Charger

Product Name	Description	Features
MCP73113	6.5V OVP Single Cell Li-Ion/Li-Polymer Battery Charge Management Controller	Integrated Input Overvoltage Protection Integrated Pass Transistor Integrated Current Sense Integrated Reverse Discharge Protection Constant Current / Constant Voltage Operation with Thermal Regulation Resistor Programmable Fast Charge Current: 130 mA

Portable Massagers - Parts

LDO

Product Name	Description	Features
MCP1824S	300mA CMOS LDO, Vout=2.5V, Extended Temp Range	Up to 300 mA output load current Low dropout voltage 200 mV (typ) Standard Fixed Output Voltages: 0.8V, 1.2V, 1.8V, 2.5V, 3.0V, 3.3V, 5.0V. Other fixed output voltages available upon request. Stable with 1.0 μ F ceramic output cap Low supply current 120 μ A (typ) SOT223-3 Pb-free package

DC-DC(Buck)

Product Name	Description	Features
MIC4721	Multiple Channel 1°C Temperature Sensors with Beta Compensation	2.7V to 5.5V supply voltage 2MHz PWM mode Output current to 1.5A Up to 94% efficiency 100% maximum duty cycle Adjustable output voltage option down to 1V