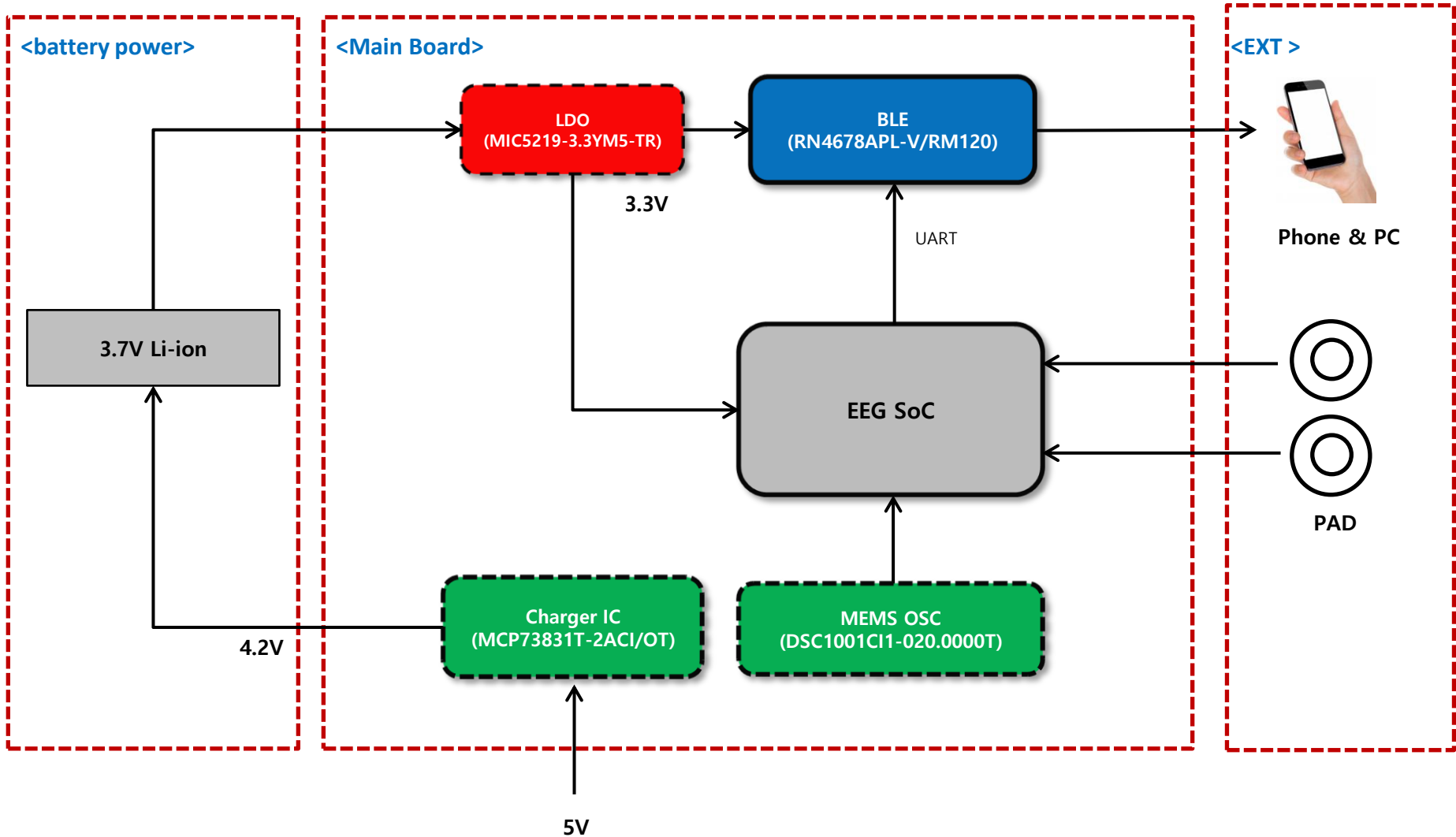
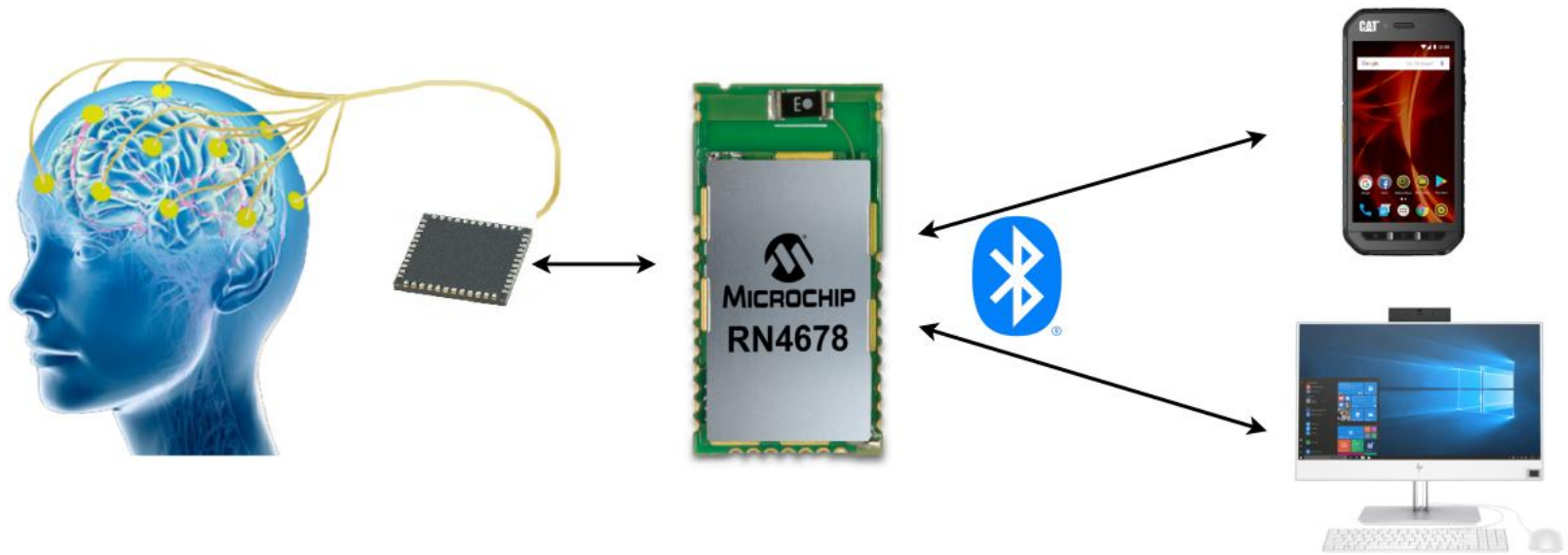


Electroencephalogram Analyzer Block Diagram





- Microchip LDO, MIC5219
 - 500mA Peak Output LDO
 - Vin 2.5~12 V
 - Ground Pin Quiescent Current : 0.1 uA

- Microchip BLE Module, RN4678
 - Bluetooth 5 Certified
 - Bluetooth Classic and Bluetooth Low-Energy Support
 - Easy to use ASCII command interface for communication
 - Module certified for use in USA, Canada, Europe, Japan, Korea, Taiwan, India and China
 - Mobile Application Supported in Microchip Bluetooth Data (MBD)
 - ISM Band 2.402 to 2.480 GHz Operation
 - RX Sensitivity : -90 dBm

- Microchip Charger IC, MCP73831
 - Single Cell, Li-Ion/Li-Polymer Charge Management Controller
 - High accuracy preset output voltage regulation (+/-0.75%)
 - Output voltage options include 4.2V, 4.35V, 4.4V and 4.5V
 - User-programmable charge current
 - Charge status output can directly drive LEDs
 - On-chip thermal regulation
 - Preconditioning and end-of-charge ratio options

- Microchip MEMS OSC, DSC1001
 - Frequency Range: 1 to 150MHz
 - ±10 PPM, ±20 PPM, ±25 PPM, ±50 PPM
 - Operating voltage of 1.7V to 3.6