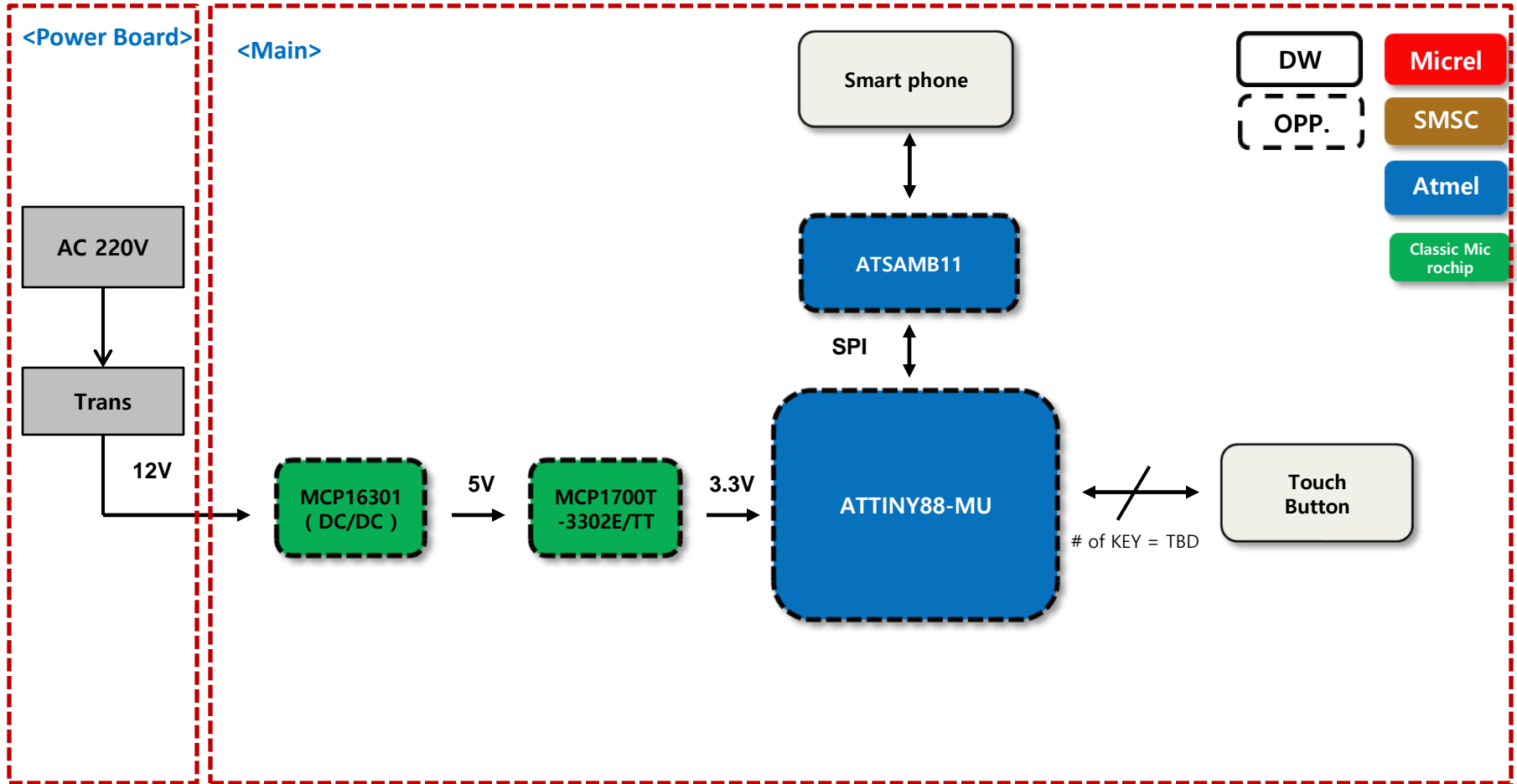
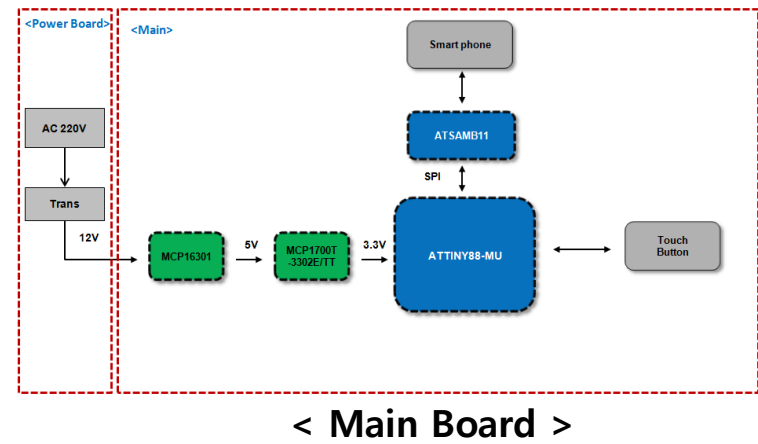
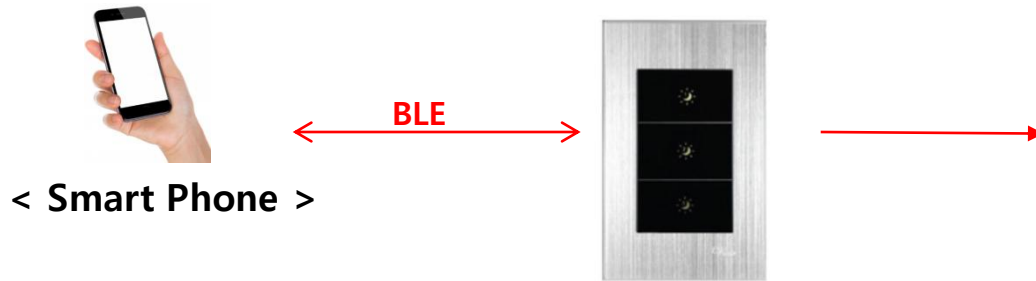


Smart Switch – Block Diagram



Smart Switch – System



- Microchip BLE SoC, ATSAMB11
 - Ultra-low Power BLE 4.1 SoC
 - Cortex®-M0 applications processor
 - Bluetooth Smart protocol stack
 - L2CAP service layer protocols
 - Security Manager
 - Attribute protocol (ATT), Generic Attribute Profile (GATT), Generic Access Profile (GAP)
 - application profiles : Proximity, Thermometer, Heart Rate, Blood Pressure
 - 4x Pulse Width Modulation (PWM)
 - 4-channel 11-bit ADC

- Microchip MCU, ATTINY88-MU
 - PicoPower AVR RISC-based CMOS 8-bit microcontroller
 - 8KB ISP flash memory
 - 64B EEPROM
 - 512-Byte SRAM
 - 28 general purpose I/O lines
 - 32 general purpose working registers
 - two flexible timer/counters with compare modes
 - internal and external interrupts
 - a byte-oriented 2-wire serial interface
 - SPI serial port
 - 6-channel 10-bit A/D converter (8-channel in 32-lead TQFP and 32-pad QFN packages)

- Microchip LDO, MCP1700T-3302E/TT
 - 1.6uA Typical Quiescent Current
 - Input Operating Voltage Range : 2.3V to 6.0V
 - Output Voltage Range : 1.2V to 5.0V
 - 250mA output current for output voltage $\geq 2.5V$
 - 200mA output current for output voltage $< 2.5V$