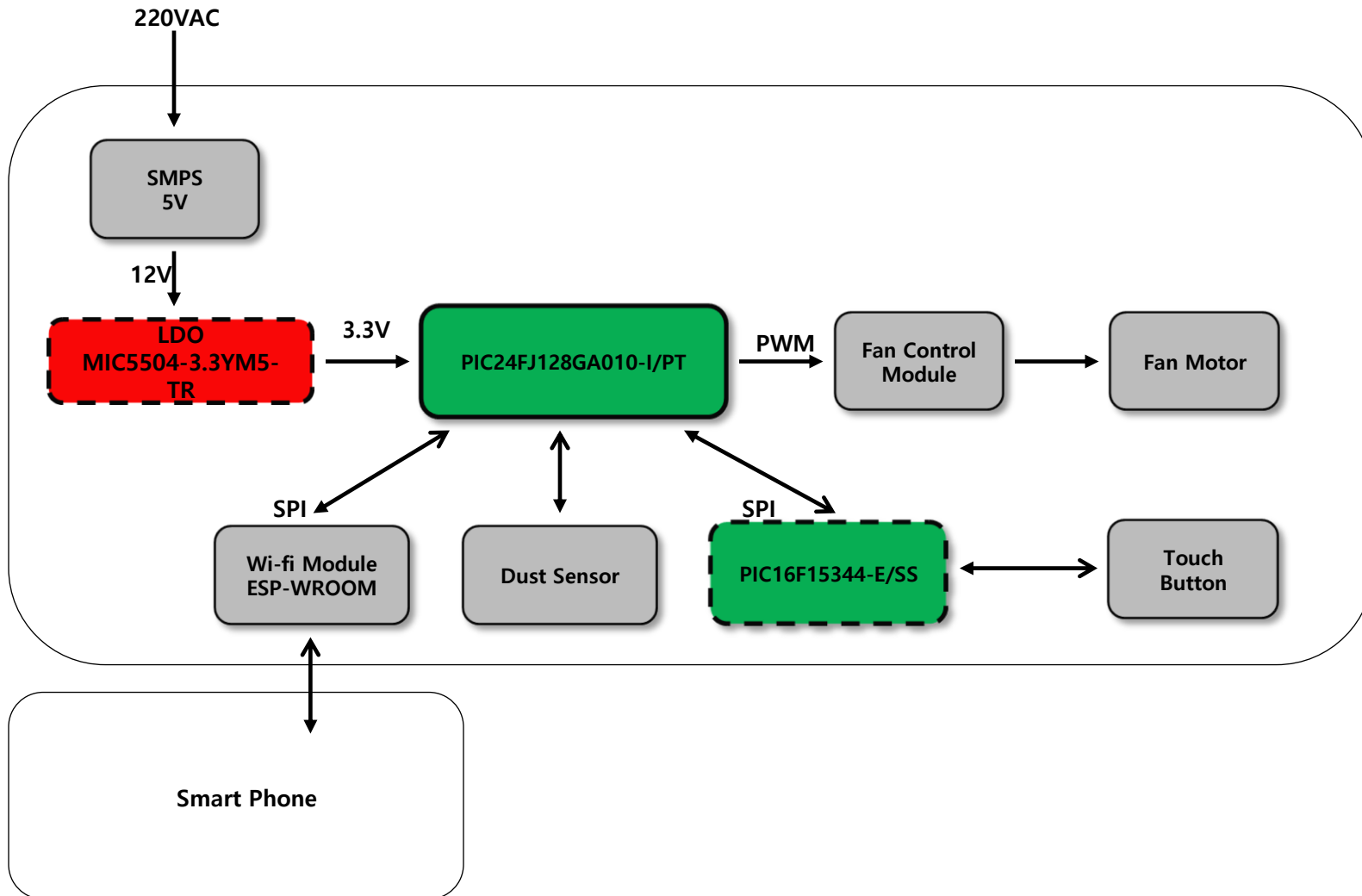


Room Air Cleaner – Block Diagram



Micrel

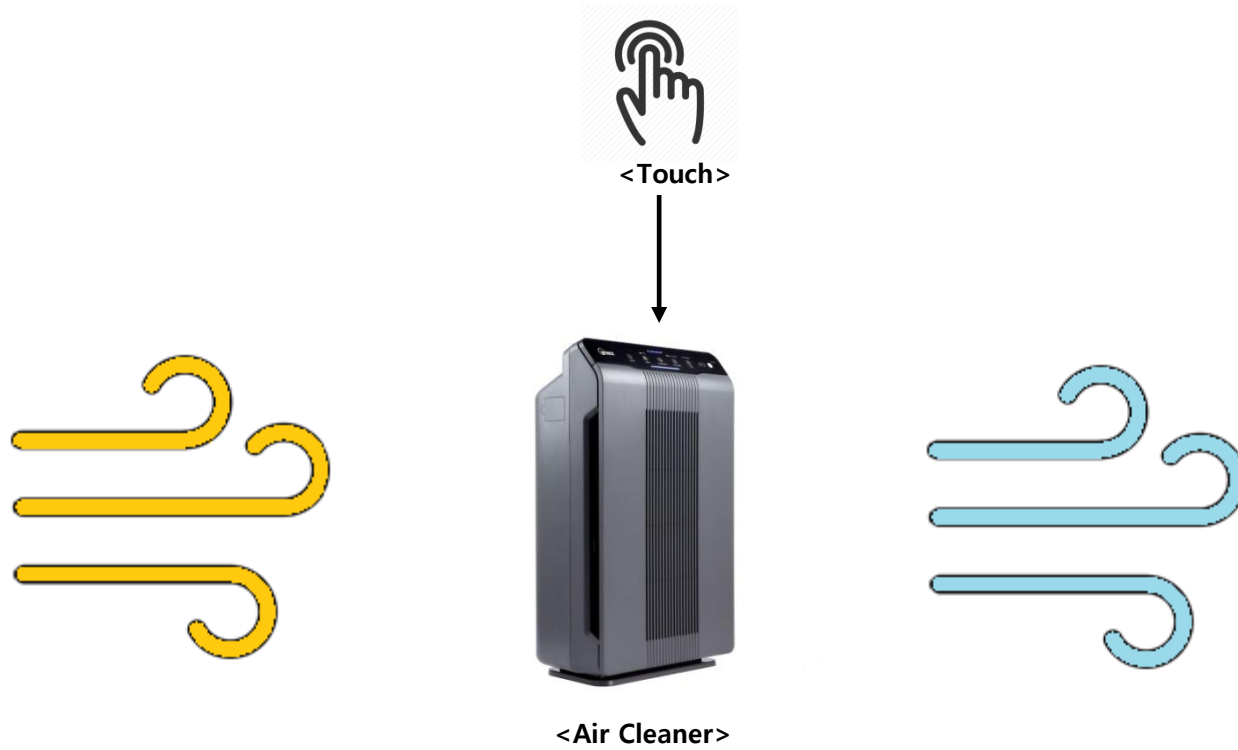
SMSC

Atmel

Classic Mic
rochip

DW

OPP.



□ Microchip MCU, PIC24FJ128GA010-I/PT

- General Purpose 128 KB Flash Microcontroller
- 10-bit ADC, 16 channels, 500k samples per second
- Two Analog comparators
- 2x UART Modules with LIN and IrDA® support, 4 Deep FIFO
- 2x SPI™ Modules with 8 Deep FIFO
- 2x I2C™ Modules with Master and Slave Modes
- Hardware RTCC, Real-Time Clock Calendar with Alarms

□ Microchip LDO, MIC5504-3.3YM5-TR

- Single 300mA LDO with Enable Pull-Down & Auto Discharge
- Input voltage range: 2.5V to 5.5V
- Fixed output voltages from 1.0V to 3.3V
- 300mA guaranteed output current
- High output accuracy ($\pm 2\%$)
- Low quiescent current: 38 μ A
- Stable with 1 μ F ceramic output capacitors

□ Microchip MCU, PIC16F15344-E/SS

- 8-bit product family
- Core Independent Peripherals (CIPs)
- eXtreme Low-Power (XLP)
- PWMs, multiple communication, temperature sensor
- Memory Access Partition (MAP)
- Device Information Area (DIA)