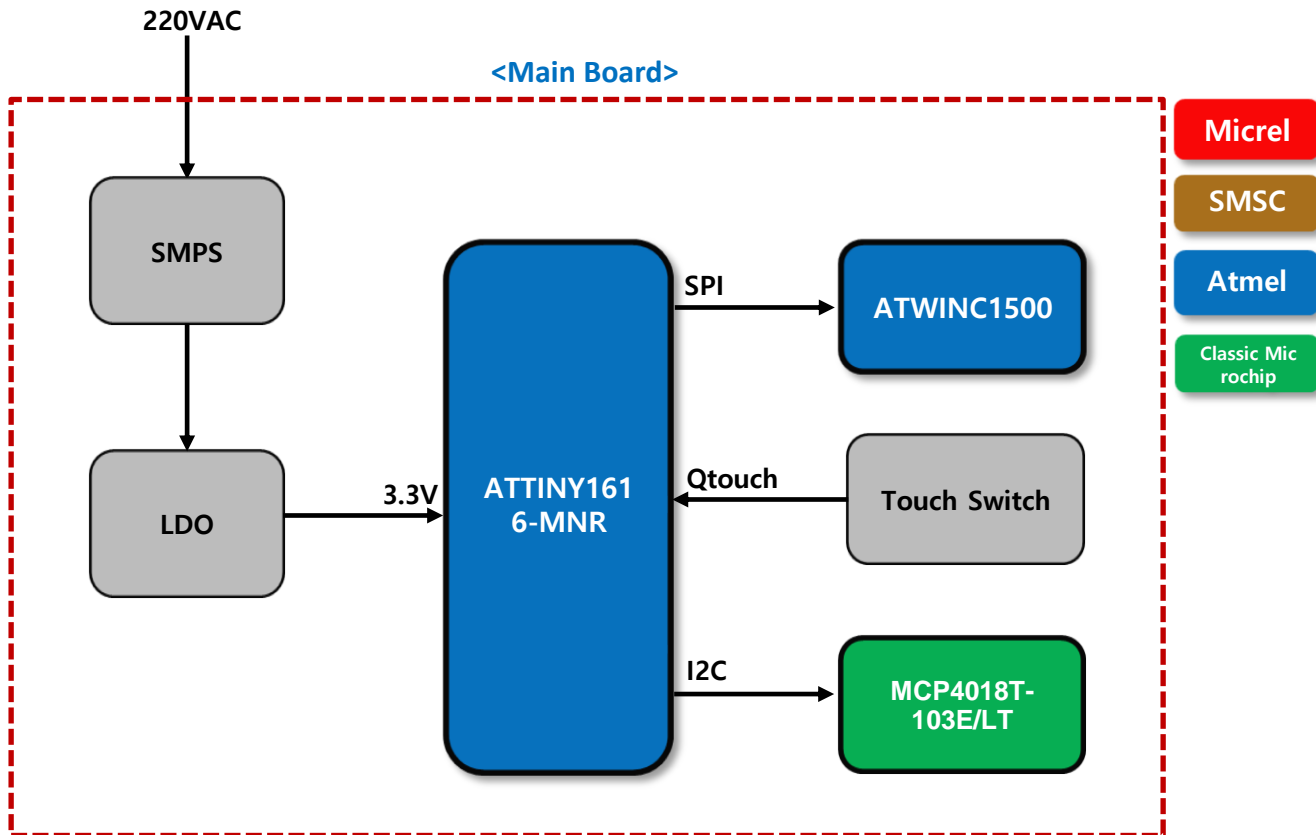
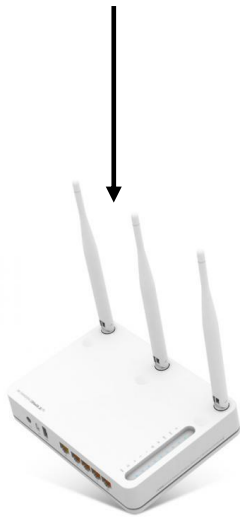


Smart Light Switch – Block Diagram





<Cloud>



<Wifi Router>



<Light Switch>



<Light>

□ Microchip MCU, ATTINY1616

- 8-bit AVR Processor
- Up to 20MHz, 16KB Flash, 2KB SRAM, 128bytes EEPROM
- 12 Channel 10-bit ADC with Voltage Reference
- Peripheral Touch Controller (PTC)
- Configurable Custom Logic (CCL)

□ Microchip Wi-Fi Module, ATWINC1500

- Single-band 2.4GHz b/g/n IoT Network Controller
- Extreme low power
- Small form factor module measures just 21.7 x 14.7mm
- Agency Certified in the US, Canada, Europe, Japan, Korea, China, India and Taiwan
- Security protocols supported: WPA/WPA2 Personal and Enterprise, TLS, SSL

□ Microchip Potentiometer, MCP4018

- Potentiometer or Rheostat configuration options
 - 127 Resistors (128 Steps)
 - Zero Scale to Full Scale Wiper operation
 - RAB Resistances: 5k Ω , 10k Ω , 50k Ω or 100k Ω
 - Low Wiper Resistance: 100 Ω (typical)
 - Absolute (Rheostat): 50 ppm typical(0°C to 70°C)
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