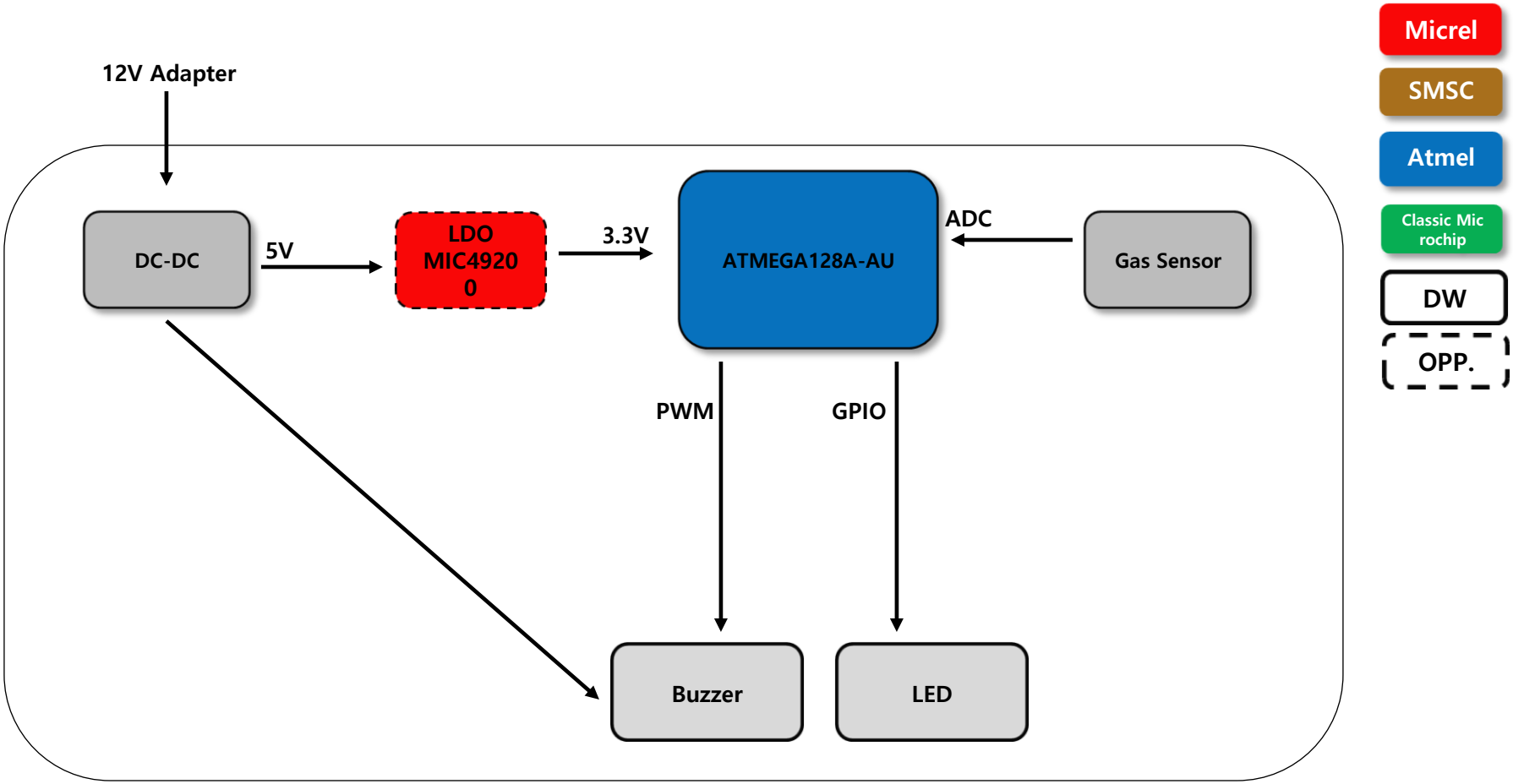
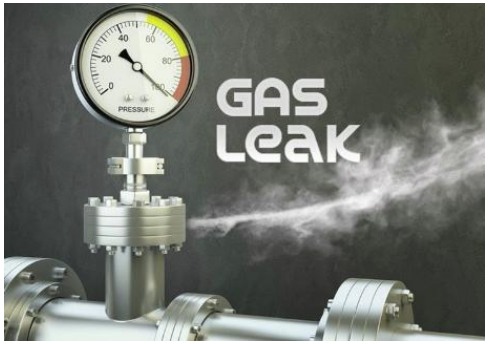
석영 BRITE STONE

Gas Leakage Alarm – Block Diagram



Gas Leakage Alarm – System



<Detector>

Gas Leakage Alarm – Parts

❑ Microchip MCU, ATMEGA128A

- Low-power Microchip 8-bit AVR RISC-based microcontroller
- 128KB flash memory with read-while-write capabilities
- 4KB EEPROM
- 4KB SRAM
- 53 general purpose I/O lines
- 32 general purpose working registers
- real time counter, four flexible timer/counters with compare modes and PWM
- two USARTs , a byte oriented Two-wire serial interface
- an 8-channel/10-bit A/D converter with optional differential input stage with programmable gain
- programmable watchdog timer with internal oscillator
- SPI serial port)

❑ Microchip LDO, MIC49200

- 2A LDO, Low Vin, Low Vout, Fast Transient Response, uCap Stable
- VIN: 1.4V to 6.5V
- VBIAS: 3.0V to 6.5V
- Stable with 1µF ceramic output capacitor
- ±1.0% initial output tolerance
- Maximum dropout (VIN - VOUT) is 500mV over temperature
- Adjustable output voltage down to 0.9V