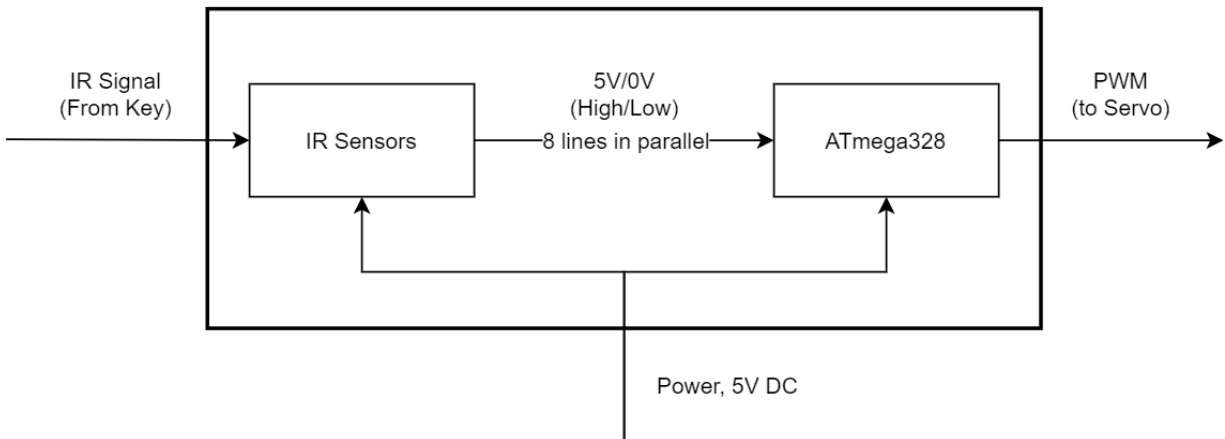


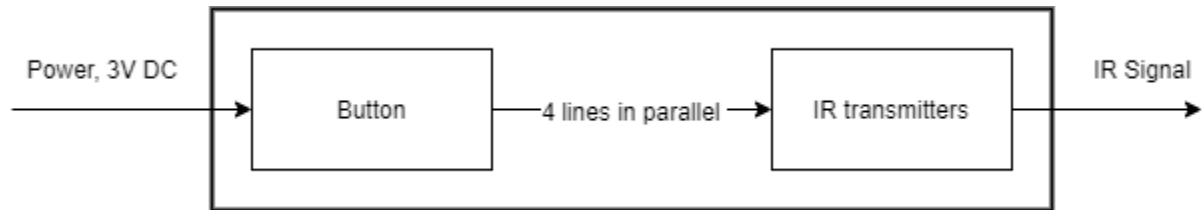
## Puzzle Lock: Level 1



Module	IR Sensors
Inputs	IR Signal: From the Key (3V) 5VDC
Outputs	5V High level / 0V Low level signal
Functionality	If the IR sensors receive the IR signal, it will pass a high level (5V) or low level (0V) signal to the controller's Digital I/O ports.

Module	ATmega328
Inputs	5V High level signal
Outputs	PWM: Generated from the ATmega328 to control the servo
Functionality	If the input matches the correct pattern seen in the controller's firmware, the ATmega328 will generate the PWM signal to control the servo motor.

## Key: Level 1



Module	Key
Inputs	5VDC
Outputs	IR Signal: From the Key (3V)
Functionality	If the button is pressed, the IR transmitters will work and send IR signals to air.