Datasheet and Specifications

- **WeMos D1 Mini ESP8255 Development Board**

Overview
This mini development board is based on the ESP-8266EX chip and is useful for applications that need wireless data transmission (2.4GHz). It is compatible with Arduino IDE and NodeMCU firmware. It features 11 digital input/output pins, all pins support interrupt/PWM/I2C/one-wire (except D0), and 1 analog input with 3.3V maximum input. With this product, you can build innovative projects like you can control lights or appliances in the house.

Specifications
Chip: ESP-8266EX
Compatible with Arduino IDE
Compatible NodeMCU firmware
GPIO pins: 11
1 pin ADC (0 V to 3.3 V)
Max Input Voltage: 24 V
Operating Frequency: 80 / 160 MHz
Flash Memory: 4MB
I2C interface
Size: 34.2 x 25.6 mm

- **HC-SR501 PIR Sensor**

Overview
The HC-SR501 sensor is based on pyroelectric infrared technology, it features high sensitivity, high reliability, and low-voltage operation. It is widely used in alarms and auto-sensing electrical equipment, especially in battery-operated products.

Specifications:
Operating Voltage Range: 5 V to 20 V
Power Consumption: 65 mA
TTL Output: 3.3 V, 0 V
Lock Time: 0.2 sec
Sensing Range: <120°, within 7 meters
Temperature Range: -15° C to +70°

- **3D printed enclosure**

The enclosure is made out of premium PLA/PHA material, non-toxic, with no odor. It is created using FDM 3D printing technology.
Note: *Take note of the fact, that 3D printing can offer great quality, but as the printing technology is not yet flawless, there may be some minor artifacts, that does not affect the functionality of the case. (e.g. layer lines, plastic blobs, stringing lines, etc.)*