Elecrow Plant Watering System board

Power switch Button
RTC button battery slot
Solenoid valve interface
Pump interface
Power interface
Mega32u4 chip
I2C interface
Micro USB interface
Reset button
Breakout interface: D7, A4, IIC Serial interface Relay Moisture sensor interface

TIANBO HJR-4102-L-05V 3A 120VAC 3A 24VDC

ESP8266 Node MCU pinout

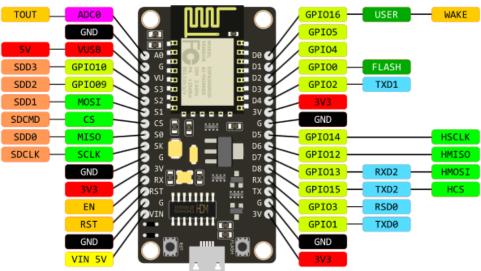| TOUT | ADC0 | | | GPIO16 | USER | WAKE |
	GND			GPIO5		
5V	VUSB	A0	D0	GPIO4		
SDD3	GPIO10	G	D1	GPIO0	FLASH	
SDD2	GPIO09	VU	D2	GPIO2	TXD1	
SDD1	MOSI	S3	D3	3V3		
SDCMD	CS	S2	D4	3V		
SDD0	MISO	S1		GND		
SDCLK	SCLK	CS	D5	GPIO14		HSCLK
	GND	S0	D6	GPIO12		HMISO
	3V3	SK	D7	GPIO13	RXD2	HMOSI
	EN	3V	D8	GPIO15	TXD2	HCS
	RST	RX	RX	GPIO3	RSD0	
	GND	RST	TX	GPIO1	TXD0	
	VIN 5V	G		GND		
		VIN		3V3		

Parts list:

Elecrow Plant Watering System

ESP8266 Node MCU

Grove - 4 Pin Female Jumper Cable

Ultrasonic Module HC-SR04

Connections:

Arduino Elecrow	ESP8266	HC-SR04
3.3V	3V3	
GND	GND	
RX	D5	
D7		Trig
A4		Echo
VCC		VCC
GND		GND