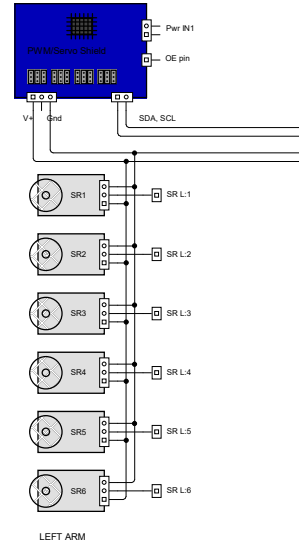
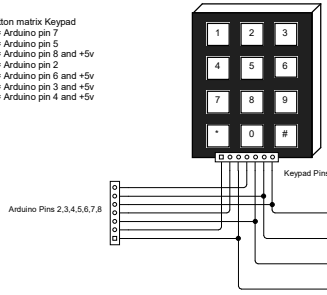
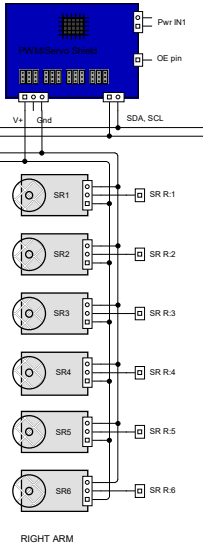


Adafruit 16-Channel 12-bit PWM/Servo Driver I2C interface (PCA9685)
 SDA = Arduino pin 20 (SDA), Brown
 SCL = Arduino pin 21 (SCL), Gray
 OE = Output Enable Arduino pin 16, Blue

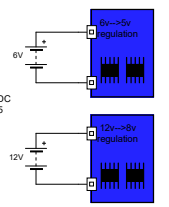
I2C address Left hand board: 0x41



I2C address Right hand board: 0x42

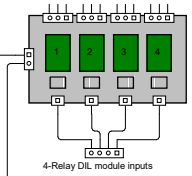


5v reg power:
 - Efcorn Pro
 - Amplifier Speech loader
 - Camera YI Dome
 6v direct power:
 - Siren, Servo Driver power (12 servos)

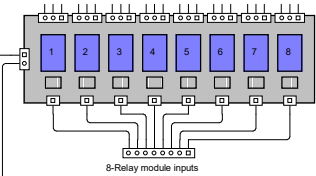


8v reg power:
 - Arduino logi ja navi
 Arduino 5v Out power:
 - Sensors, Sound Detector, Real time Clock
 - Pwm Servo Shield, FX Sound Board
 - SD Card, LCD Display
 - 4 and 8 relay card

4-Relay DIL module inputs (Default 3kOhm, 1kOhm)
 IN1 = LCD Graphics Display power Off Arduino pin 26, Violet (Default Off)
 IN2 = <-free> Arduino pin 27, Orange (Default Off)
 IN3 = <-free> Arduino pin 24, Blue (Default Off)
 IN4 = <-free> Arduino pin 23, Green (Default On)
 Test Switch = On/Off Arduino pin 22, Yellow



8-Relay module inputs (Default OFF)
 IN1 = Servo Driver power On Arduino pin 30, White
 IN2 = Front Laser Servo power On Arduino pin 31, Yellow
 IN3 = Camera Xiaomi Y1 1080p Dome power On Arduino pin 32, Light Violet
 IN4 = Amplifier Speech loader power On Arduino pin 33, Light Violet
 IN5 = Siren (6-14V 115dB) power On Arduino pin 34, Blue
 IN6 = Navigation unit and sensor power On Arduino pin 35, Green
 IN7 = <-free> Arduino pin 36, Gray
 IN8 = <-free> Arduino pin 37, Orange



Sparkfun Sound Detector ISR Sensor variables:
 Gate digital input pin = Arduino pin 9, Light Violet
 Envelope analog input pin = Arduino pin A9, Red

Adafruit S7021 Temperature Humidity Sensor setup.
 The I2C address is 0x40 and it can not be change.
 SDA = Arduino pin 20 (SDA), Brown
 SCL = Arduino pin 21 (SCL), Gray

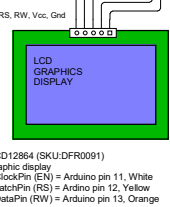
Analog Ambient Light Sensor V2.1
 S = Arduino pin A6, Green

MQ-2 Gas Sensor
 A0 = Arduino pin A7, Blue
 D0 = Arduino pin 29, Violet

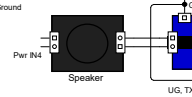
Adafruit Audio FX Sound Board WAV/OGG
 Trigger with 10MB Flash (SFX):
 Pin IUG = FX Sound Board Pin GND
 Pin TX = Arduino pin 18 (TX1), Violet
 Pin RX = Arduino pin 19 (RX1), Orange
 Pin RST = Arduino pin 23, Yellow

PIR motion sensor
 Digital input = Arduino pin 10, Orange

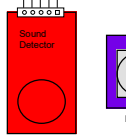
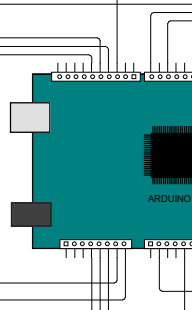
MQ-7 CO Sensor (Flying fish)
 A0 = Arduino pin A8, White
 D0 = Arduino pin 29, Yellow



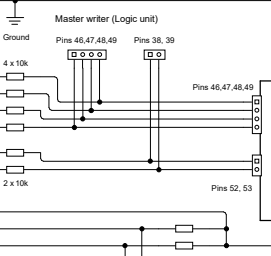
LCD12864 (SKU:DFR0091)
 graphic display
 ClockPin (EN) = Arduino pin 11, White
 LatchPin (RS) = Arduino pin 12, Yellow
 DataPin (RW) = Arduino pin 13, Orange



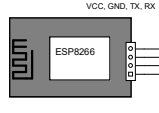
Speaker
 UG, TX, RX, Vin, Gnd



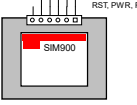
CATALEX SD Card SPI Arduino Mega (v1.0 11/01/2013):
 MISO = Arduino pin 50, Blue
 MOSI = Arduino pin 51, Gray
 SCK = Arduino pin 52, Violet
 SS/CS = Arduino pin 53 (SC), Green



DS3231 Real Time Clock module pins:
 The I2C address of the DS3231 is 0x68
 SDA = Arduino pin 20 (SDA), Brown
 SCL = Arduino pin 21 (SCL), Gray



ESP8266 (ESP12F) Wi-Fi module
 Vcc = Arduino 3.3V
 Gnd = Arduino Gnd
 ESP TX = Arduino TX3 pin 14
 ESP RX = Arduino RX3 pin 15



EFCorn Pro V1.0 GPRS/GSM Module pins
 Efcorn TX = Arduino pin RX A10 (64), White
 Efcorn RX = Arduino pin TX A11 (65), Orange
 Efcorn PWR = Arduino pin 17, Brown



ATmega328 Nano and Logic Unit voltage info pins:
 ATmega D7 = Logic Unit In pin A4, White
 ATmega D8 = Logic Unit Out pin A5, Yellow

Slave Receiver configuration via digital pins binary transfer
 Arduino Mega 2560, SEVI Navigation unit
 Digital pins = Arduino pins 46-49 (White, Yellow, Green, Blue)
 Master action = pin 52 (Brown)
 Slave acknow = pin 53 (Grey)

ATmega328 Nano and Logic Unit voltage info pins:
 ATmega D7 = Logic Unit In pin A4, White
 ATmega D8 = Logic Unit Out pin A5, Yellow

Keypad pins 3, 5, 6 and 7 go also to the Arduino +5V.