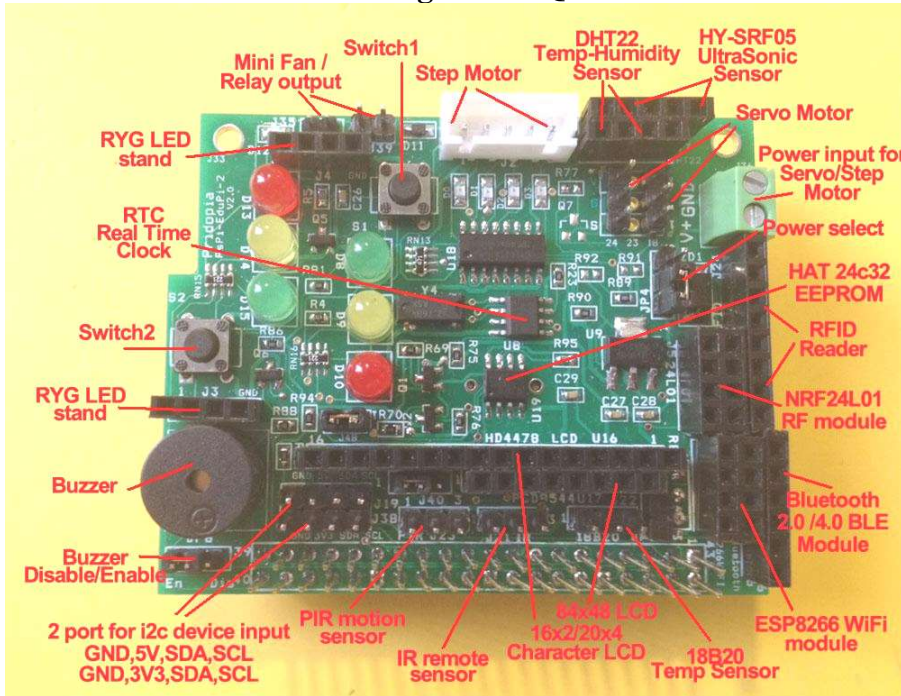


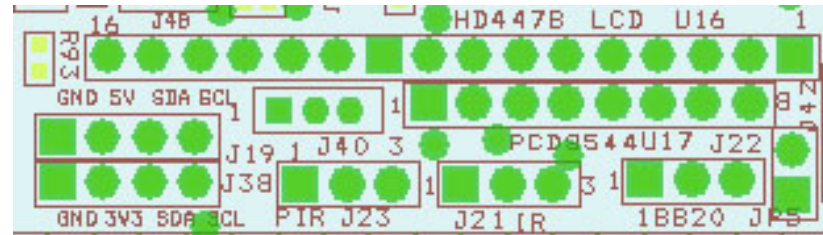
Rs-Pi EDU-V2-E01 Learning Board Quick Guide



1. EDU Learning Board user manual and software pack download <http://www.pridopia.co.uk/pi-edu-v02.html>
2. Pi_Scratch full function user Manual and software download <http://www.pridopia.co.uk/rs-pi-set-scratch.html>
3. Other function board for Raspberry Pi A/B & A+/B+ <http://www.pridopia.co.uk/ixx-rspi.html>

Packing List

* EDU Learning Board E01x1



GPIO interface for 84x48 LCD

Din = GPIO 23 , SCLK = GPIO 24,
DC = GPIO 22 ,RST = GPIO 17 , CS =GPIO 27

84X48 LCD back light control by GPIO18

J40 1-2 16x2 & 20x4 LCD back light always on 2-3 control by GPIO 18

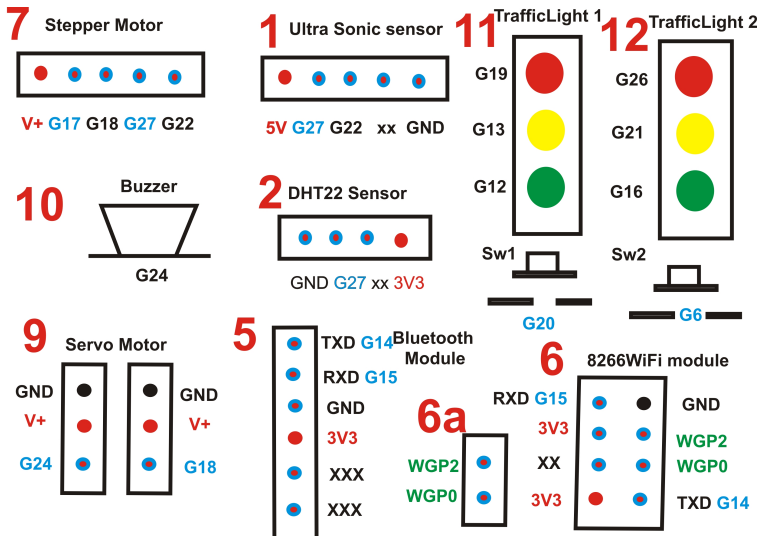
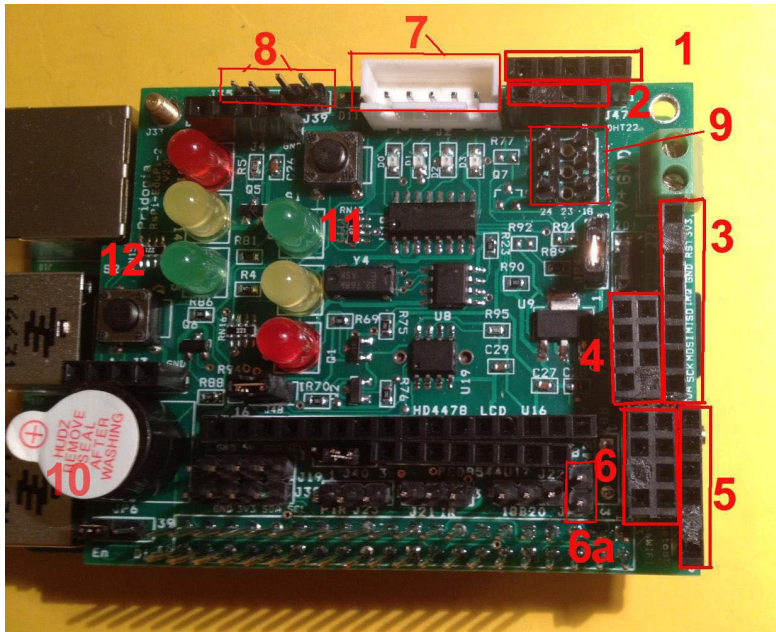
12.16X 2 & 20X4 LCD GPIO Pin1 to Pin16
(VSS,VDD,V0,RS,RW,E,D0,D1,D2,D3,D4,D5,D6,D7,A,K)

VSS - GND, VDD - 5V, V0 to 10K trimpot,
RS - GPIO 25 , RW - GND

E - GPIO 24 , A - 5V, K - GPIO 18

4bit mode D4 - GPIO 23 , D5 - 11 GPIO 17,
D6 - GPIO 27 D7 - GPIO 22

	StepMotor1	DS18B20 Temp Sensor	IR remote Sensor	PIR motion sensor	Buzzer	DHT22	UltraSonic
GPIO17	v						
GPIO18	v						
GPIO27	v					v	v
GPIO22	v						v
GPIO23			v	v			
GPIO24					v		
GPIO25							
GPIO4		v					
	Green LED 1	Yellow LED 1	Red LED 1	Green LED 2	Yellow LED 2	Red LED 2	
GPIO12	v						
GPIO13		v					
GPIO19			v				
GPIO16				v			
GPIO21					v		
GPIO26						v	
SPI signal	RFID	NRF24L01			Micro SW 1	Micro SW 2	Mini Fan
GPIO7(CE1)					GPIO20	v	
GPIO8(CE0)	v	v			GPIO6	v	
GPIO9(MISO)	v	v			GPIO5		v
GPIO10(MOSI)	v	v					
GPIO11(SCLK)	v	v			i2c signal	RTC	HAT EEPROM
GPIO25		v			GPIO2(SDA)	v	
					GPIO3(SCL)	v	
TXD/RXD	WiFi Module	Bluetooth			ID_SD		v
GPIO14(TXD)	v	v			ID_SC		v
GPIO15(RXD)	v	v					



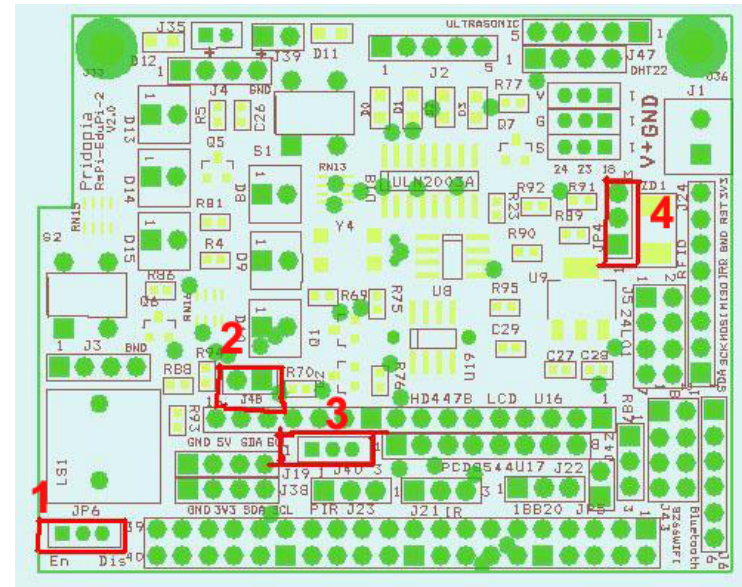
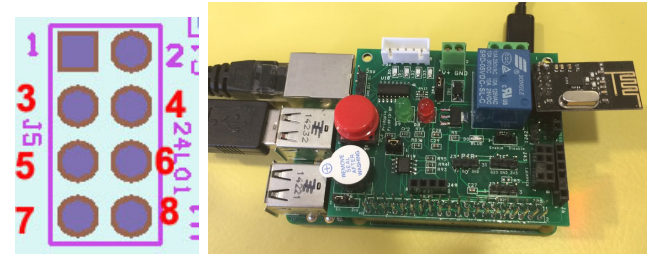
3. RFID socket

From pin1 (SDA,SCK,MOSI,MISO,IRQ,GND,RST,3V3)



4. NRF24L01 socket

From pin1 (GND,3V3,GPIO25,CE0,SCLK,MOSI,MISO,X)



- 1. Buzzer enable/Disable 1-2 Enable 2-3 Disable
- 2. HAT EEPROM Write protection Enable/Disable
- 3. 16x2 & 20x4 character LCD back light Enable/Disable by GPIO 1-2 GPIO 18 2-3 always ON
- 4. Servo & Stepper Motor V+ power input select 1-2 from Pi 2-3 from external 2p terminal block