#### Connection table:

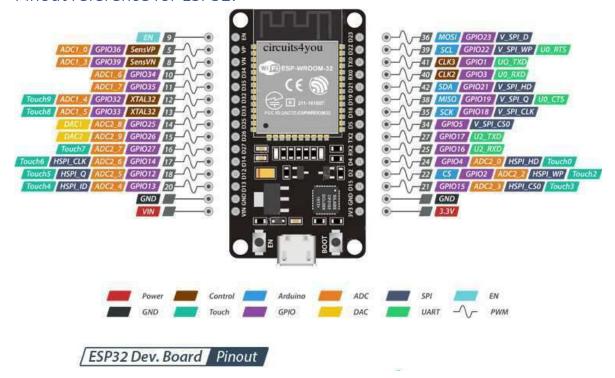
ESP32 Vin	Buck Module Out +
ESP32 Gnd	Buck Module Out -
ESP32 D21 SDA	LCD I2C Expander SDA
ESP32 D22 SCL	LCD I2C Expander SCL
ESP32 D17 TX2	RS485 Module DI
ESP32 D16 RX2	RS485 Module RO
ESP32 D25	RS485 Module DE
ESP32 D26	RS485 Module RE
ESP32 D19 MISO	SDMMC Module MISO
ESP32 D18 SCK	SDMMC Module SCK
ESP32 D23 MOSI	SDMMC Module MOSI
ESP32 D5	SDMMC Module CS
LCD I2C Expander 16 Pins with LCD from the back	
LCD VCC	Buck Module Out +
LCD GND	Buck Module Out -
RS485 Vcc	Buck Module Out +
RS485 Gnd	Buck Module Out -
SDMMC Module Vcc	Buck Module Out +
SDMMC Module Gnd	Buck Module Out -
Buck Converter In +	Main Battery 12V
Buck Converter In -	Main Battery Gnd

#### Important Notes:

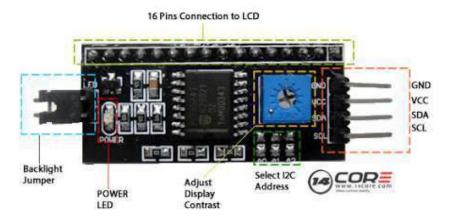
- Make sure to set the buck converter output voltages to 5V before attaching all the devices

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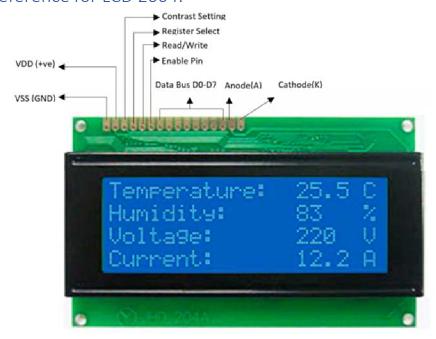
#### Pinout reference for ESP32:



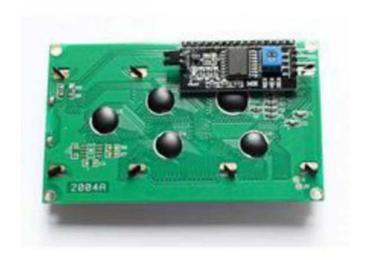
### Pinout reference for LCD I2C Expander:



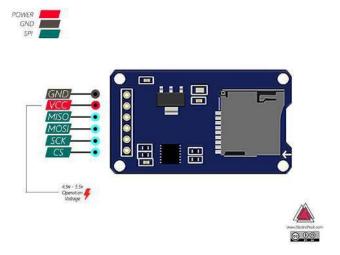
#### Pinout reference for LCD 2004:



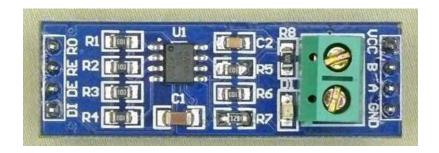
# After attaching LCD with I2C expander:



#### Pinout reference for SDMMC Module:



## Pinout reference for RS485 module:



## Pinout reference for Buck converter module:

