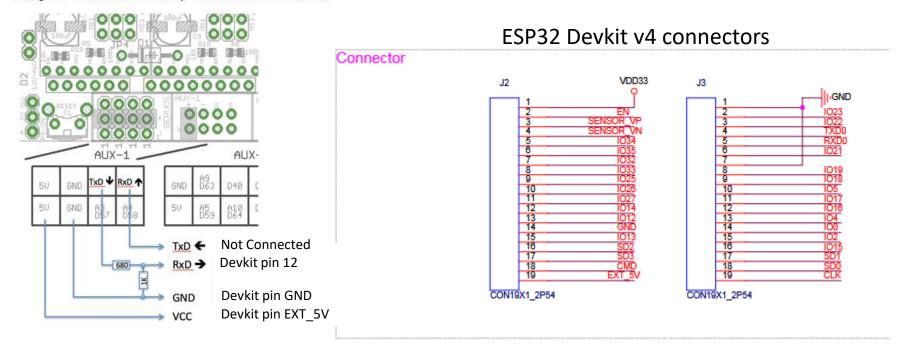
Filament extruder - Connecting RAMPS 1.4 to ESP32 for IOT

10/31/19

Wiring location of UART on RAMPS 1.4 board

Wiring

On RAMPS/Arduino Mega the UART level are 5V but the BT module supports only 3.3V input. Therefore the TxD level has to be divided by resistor. This passive solution is fast enough for 115kBaud. Overall only 4 wires have to be soldered.



https://icircuit.net/arduino-interfacing-arduino-uno-esp32/2134

ESP32 serial port- UART1 can be rerouted to other pins

- https://hackaday.com/2017/08/17/secretserial-port-for-arduinoesp32/
- https://quadmeup.com/arduino-esp32-and-3hardware-serial-ports/

Hooking up to AWS

 https://github.com/debsahu/ESP-MQTT-AWSloT-Core