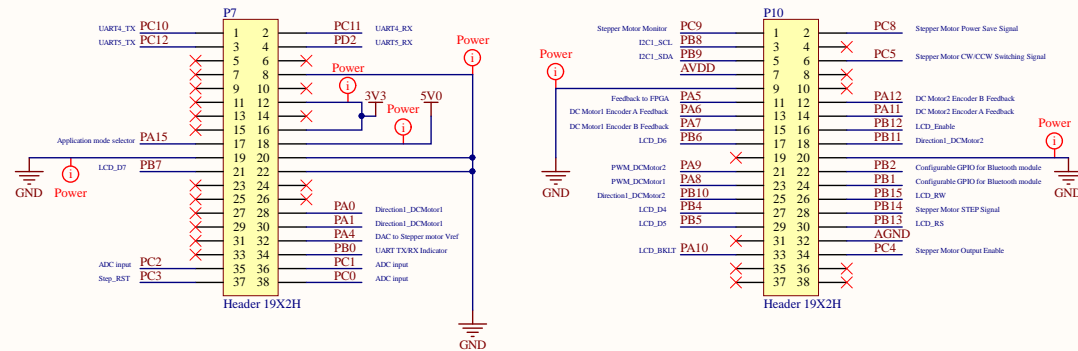
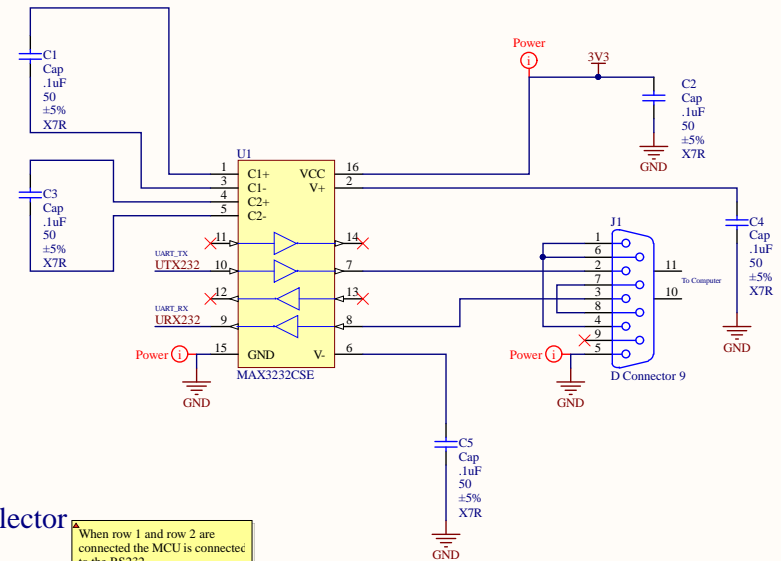


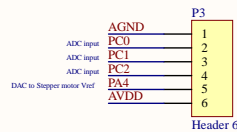
## Nucleo-64 Morpho Connectors



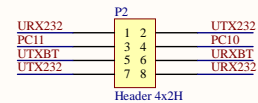
## RS-232 Interface



## Analog I/O



## Command Selector

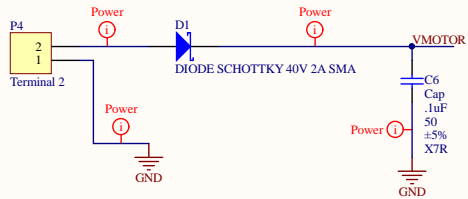


When row 1 and row 2 are connected the MCU is connected to the RS232.  
Row 2 and row 3 means the MCU is connected to the BLE.  
Row 3 and row 4 means the BLE is connected to the RS232

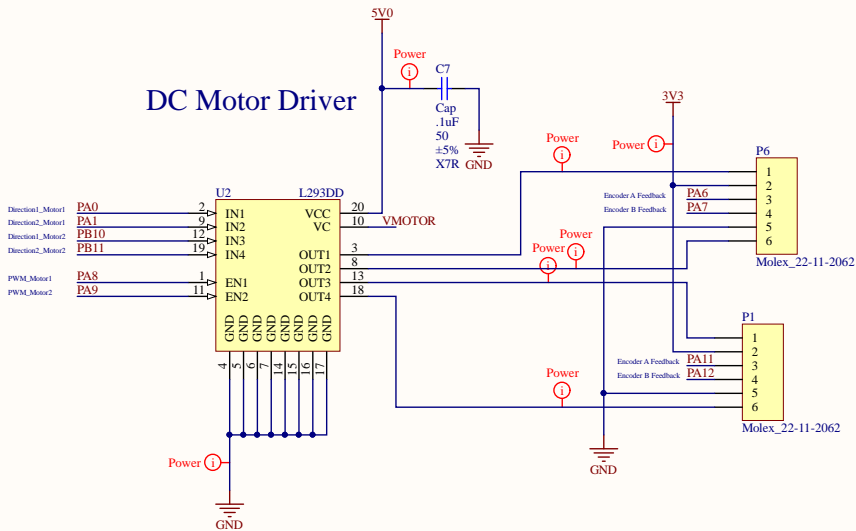
Title STM32F3 Discovery Expander & RS-232 Interface		
Size B	Number	Revision A
Date: 2/26/2020	Sheet 1 of 4	
File: C:\Altium\...\Sheet1.SchDoc	Drawn By: Zaid M. Alkhatib & Shamsuddin Elwan	



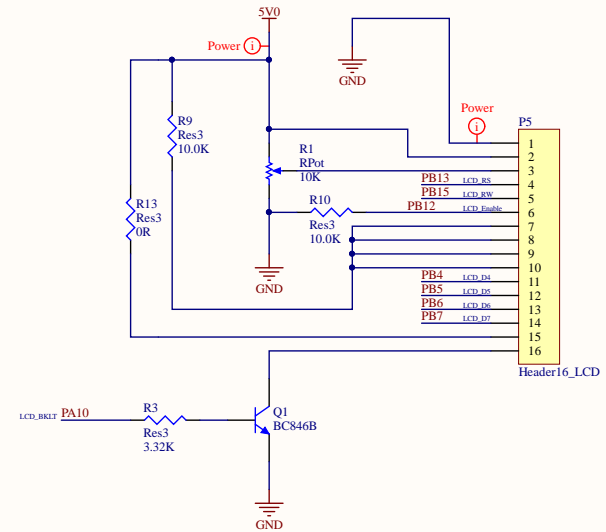
## DC Motor Power



## DC Motor Driver



## LCD Connector



Title		
DC Motor Driver & LCD Interface		
Size	Number	Revision
B		A
Date:	2/26/2020	Sheet 3 of 4
File:	C:\Altium\Sheet3.SchDoc	Drawn By: Zaid M. Alkhatib & Shamsuddin Elwan

Power

3V3

D3

LED

R11

Res3 332R

P0\_2

Power ON/OFF Indicator

U4

Antenna

1 NC

2 GND

3 P1\_2

4 P1\_3

5 P1\_7

6 P1\_6

7 UART\_RX

8 UART\_TX

9 P3\_6

10 RST\_N

11 P0\_0

12 P0\_2

13 GND

14 VBAT

15 PB0

16 PA15

Application mode selector

UART TX/RX Indicator

Power 3V3

C14

Cap 10uF 6.3 ±10% X5R

GND

RN4871\_BLE

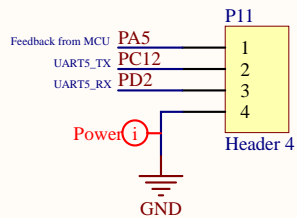
PB2 URXBT

PB1 UTXBT

GND

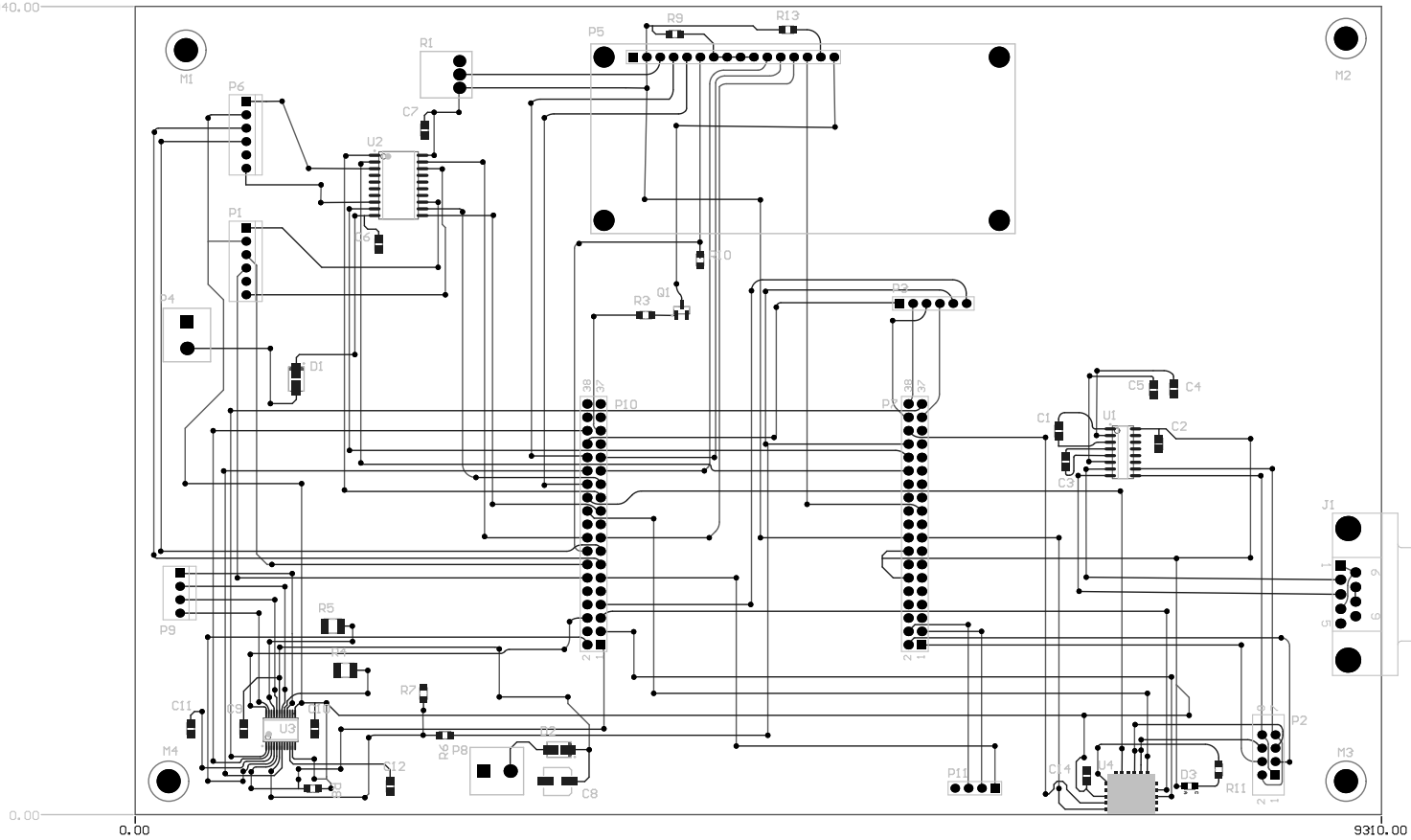
PI\_6 is a configurable GPIO pin that can be programmed to show a variety of statuses for the Bluetooth Module.

## FPGA Connector



Title <b>Bluetooth Module &amp; FPGA Connector</b>		
Size A	Number	Revision A
Date: 2/26/2020	Sheet 4 of 4	
File: C:\Altium\...\Sheet4.SchDoc	Drawn By:	Zivad Mekhemer & Shamseddin Elmarsi

6040.00



9310.00