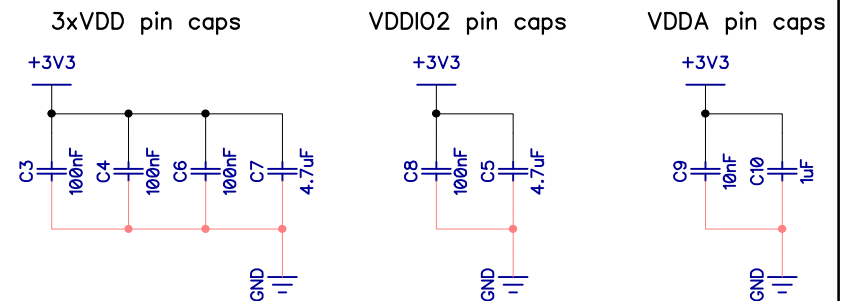


Power supply scheme (pg 50)



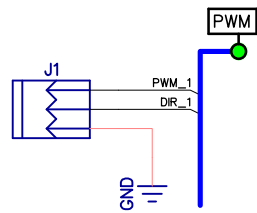
UW Mars Rover		
Size	End effector - Schematics	Rev
A 1:1	Microcontroller	0.1
Date 3 Nov 2017		Drawn by EB
end_effector.dch		Sheet 1 of 3

[illegible]

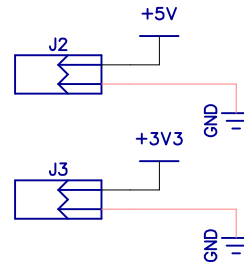
The diagram illustrates a CAN bus system. A +3V3 supply is connected to a CAN transceiver (U2) via a 100nF capacitor (C12). The transceiver has pins TXD, RXD, VCC, GND, RS, CANH, CANL, SPLIT, and IC. It is connected to a CAN bus with nodes TP10 and TP11. The bus is terminated with 120R resistors (R17, R18) and has a diode bridge (D1) connected to ground. A UART module is also shown with pins TX, RX, and RTS, and test points TP14, TP15, and TP16.

UW Mars Rover		
Size A 1:1	End effector - Schematics Support	Rev 0.1
Date 3 Nov 2017		Drawn by EB
end_effector.dch		Sheet 1 of 3

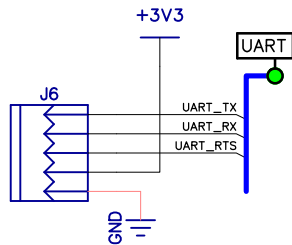
## PWM Connectors



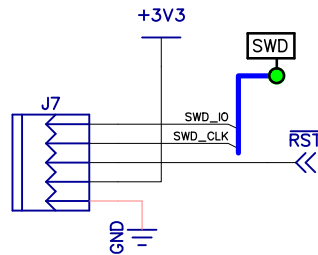
## Power Connectors



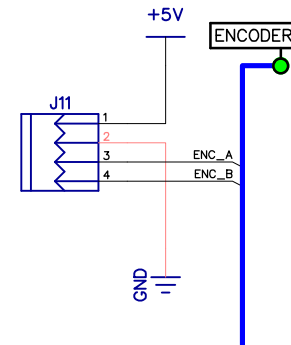
## UART Connectors



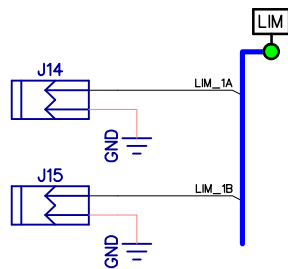
## SWD Connectors



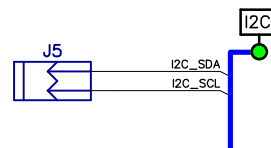
## Encoder Connectors



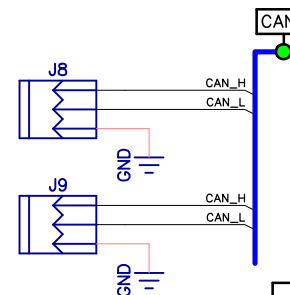
## Limit switch connectors



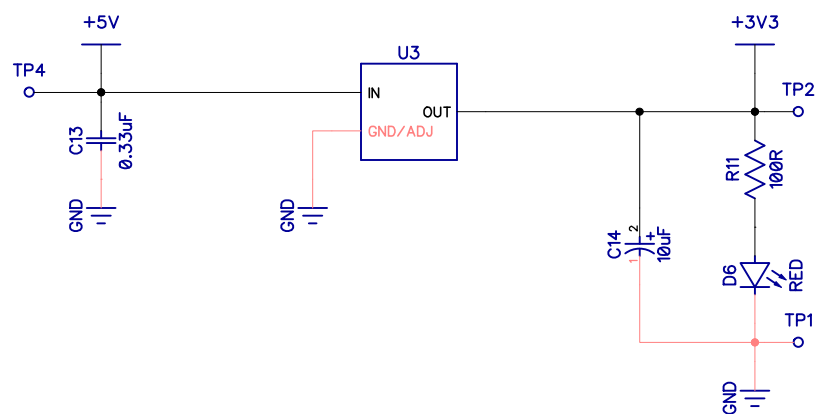
## I2C Connectors



## CAN Connectors



UW Mars Rover		
Size	End effector - Schematics	Rev
A 1:1	Connectors	0.1
Date 3 Nov 2017		Drawn by EB
end_effector.dch		Sheet 1 of 3



UW Mars Rover		
Size	End effector - Schematics	Rev
A 1:1	Power	0.1
Date 3 Nov 2017	Drawn by EB	
end_effector.dch	Sheet 1 of 3	