Description	Model Name	Quantity needed
Note: Teensy and Arduino will be facing downwards and there will be female header pins. The schematic and board will be mirrored		
6 pin Molex Connector (for IMUs)		2
6 pin Molex Connector (for SPI)		1
6 pin Molex Connector (for ADXL377)		1
N Channel Enhancement MOSFET	IRLB8721	5
Gate Resistor 56E, 1/4W		
3 pin Molex Connector (for Retroreflective)		2
8 pin IC holder (for Can controller)	MCP2551 (P) not (SN)	1
CAN IC		
3 pin molex connector (for CAN Bus)		1
10k Ohms 1/8W Resistor (for CAN RS pin)		1
D Sub 15 connector (2 Rows)		4
100 nF capacitor	CK06BX104KT/R	4
160E, 1/4W		4
10K, 1/8W		4
4 pin molex connector (for Debug)		1
24*2 Female Headers (for Teensy 3.6 - used pins downwards)		1 set
Teensy 3.6		1
4.7k Ohms 1/8W Resistors (for I2C pullups)		2
8 pin IC holder (for MAX485 RS422 to TTL current)		8
120 Ohms 1/8 W		8
24V connector	256-402/333-000	1
LED		1
1.5k Ohms 1W resistor (for LED)		1
Switching Voltage Regulator	78SRH-5/2-C	1
47uF / 50V Aluminium Polymer Capacitor	870055775005	2
2.25k Ohms 1/4W Resistors (for Opto photodiodes)		2
10k Ohms 1/8W Resistors (for Opto pullups)		2
6 pin IC holder (for Optocouplers)	4N25M	2
4N25		2
	Total	60

Datasheet Link			
https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg			
https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg			
https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg			
Not Required			
https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg			
http://ww1.microchip.com/downloads/en/DeviceDoc/21667f.pdf			
https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg			
Not Required			
http://service.powerdynamics.com/ec/Catalog17/Section%2007.pdf			
http://www.kemet.com/Lists/ProductCatalog/Attachments/10/F3101_MIL-PRF-11015.pdf			
Not Required			
Not Required			
https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg			
https://www.pjrc.com/store/teensy36.html			
Not Required			
https://datasheets.maximintegrated.com/en/ds/MAX1487-MAX491.pdf			
Not Required			
https://drive.google.com/open?id=0B4PBstU5QzLGaUNWOWhXWmkwd1k			
Not Required			
Not Required			
http://www.mouser.com/ds/2/281/mpm_78sr-2a_a00-42390.pdf			
http://katalog.we-online.de/pbs/datasheet/870055775005.pdf			
Not Required			
Not Required			
https://www.vishay.com/docs/83725/4n25.pdf			
https://www.vishay.com/docs/83725/4n25.pdf			