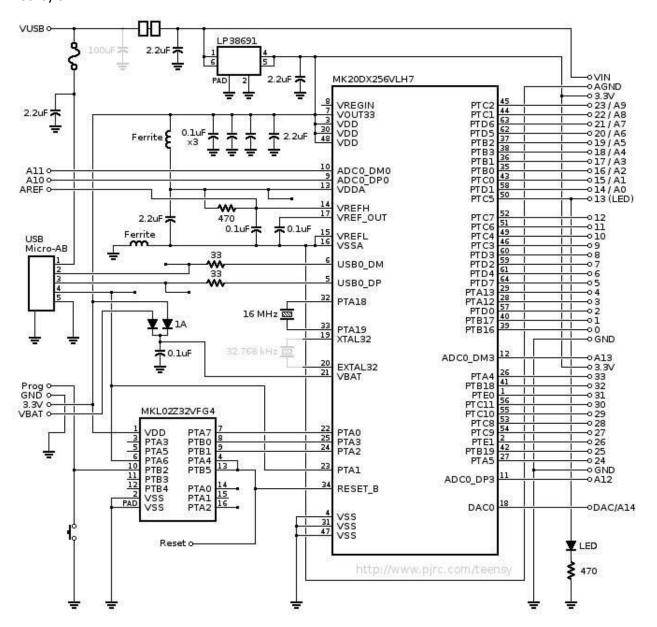
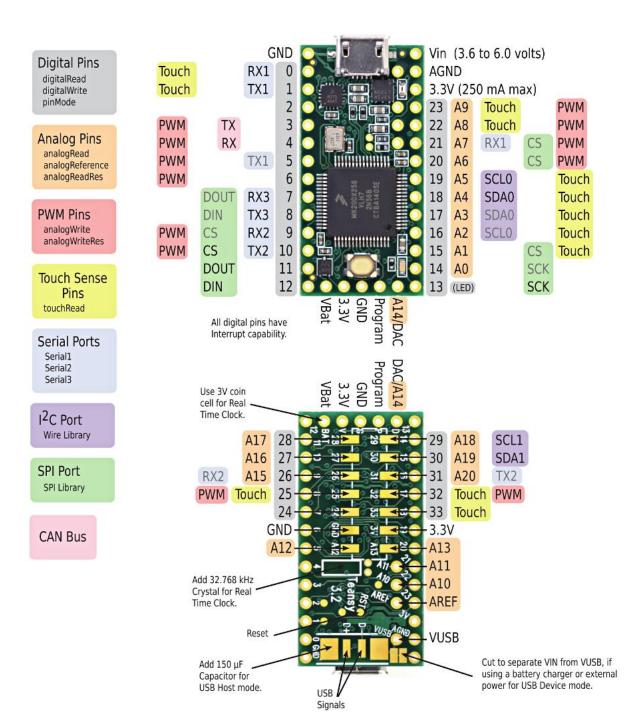
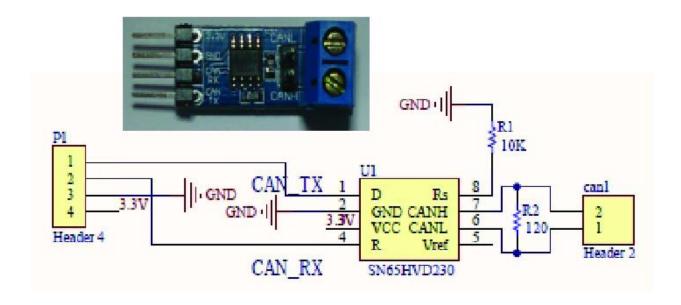
Teensy 3.2



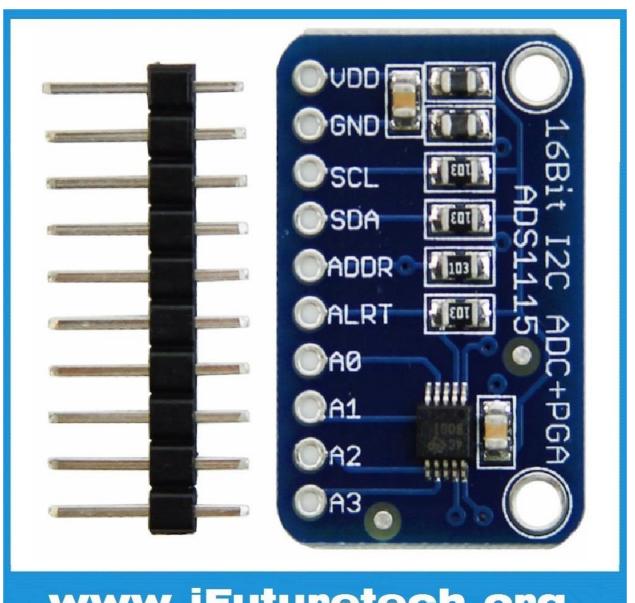


CAN Transceiver

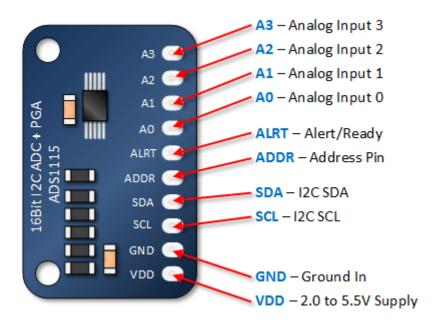




16bit ADC

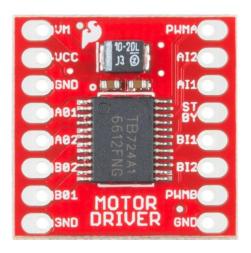


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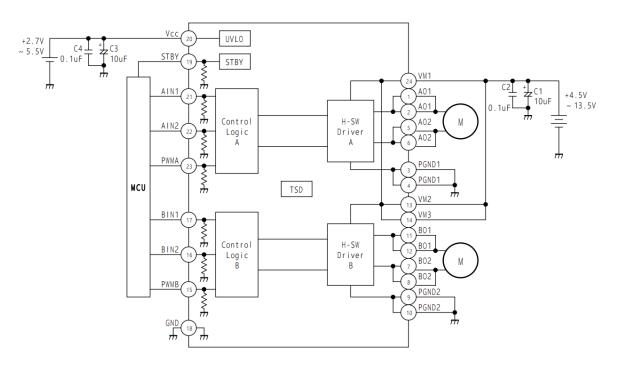


Motor Driver - Dual TB6612FNG v2

RB-Spa-1516



Typical Application Diagram



Characteristics	Symbol	Min	Тур.	Max	Unit	Remarks
Supply voltage	Vcc	2.7	3	5.5	V	
Supply voltage	VM	4.5	5	13.5	V	
Output current (H SW)	lout		1	1.0	Α	VM 5V
Output current (H-SW)				0.4		5V > VM 4.5V
Switching frequency	fPWM			100	kHz	

Absolute Maximum Ratings (Ta = 25°C)

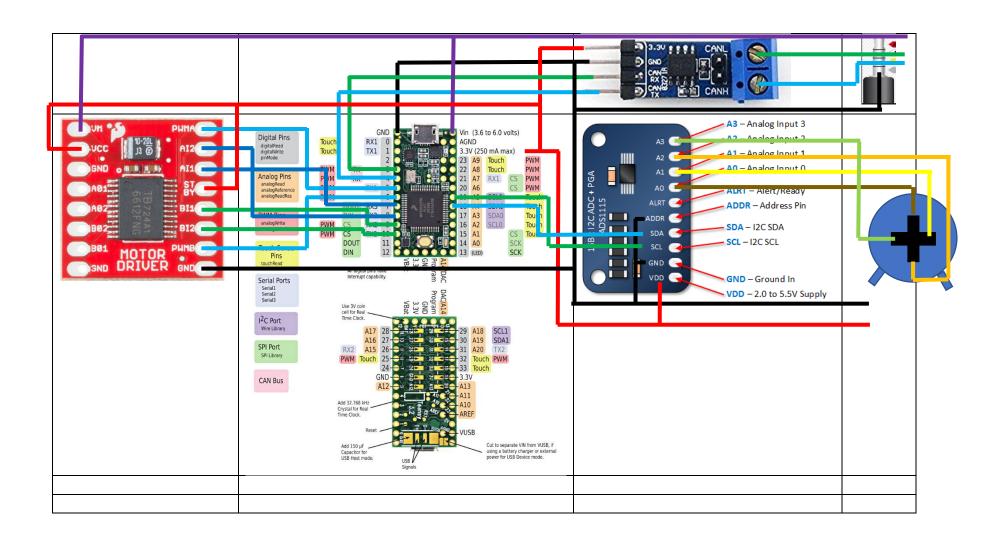
Characteristics	Symbol	Rating	Unit	Remarks
Cumply yellogo	VM	15	V	
Supply voltage	Vcc	6] ^v	
Input voltage	VIN	-0.2~6	V	IN1, IN2, STBY, PWM pins
Output voltage	Vout	15	V	01,02 pins
	lout	1.2		Per 1ch
Output current	lout	2	A	tw=20ms Continuous pulse, Duty 20%
	(peak)	3.2		tw=10ms Single pulse
		0.78		IC only
Power dissipation	PD	0.89	W	50 × 50 t=1.6(mm) Cu 40% in PCB mounting
		1.36		76.2 × 114.3 t=1.6(mm) Cu 30% in PCB monting
Operating temperature	Topr	-20 ~ 85	°C	
Storage temperature	Tstg	-55 ~ 150	°C	

Pin Functions

No.	Pin Name	I/O	Function					
1	AO1	0	ch A output1					
2	AO1		CITA OULPULT					
3	PGND1		ower GND 1					
4	PGND1		OWEI GND I					
5	AO2	0	ch A output2					
6	AO2	U	CITA output2					
7	BO2	0	ch B output2					
8	BO2	U	CIT B OULPULZ					
9	PGND2		Power GND 2					
10	PGND2		Power GND 2					
11	BO1	0	ch B output1					
12	BO1	U	on b output					
13	VM2	_	Motor supply (2.5 V to 13.5 V)					
14	VM3		Wiotor Suppry (2.5 V to 15.5 V)					
15	PWMB	I	ch B PWM input / 200 kΩ pull-down at internal					
16	BIN2	I	ch B input 2 / 200 kΩ pull-down at internal					
17	BIN1	I	ch B input 1 / 200 kΩ pull-down at internal					
18	GND	_	Small signal GND					
19	STBY	I	"L"=standby / 200 kΩ pull-down at internal					
20	Vcc	_	Small signal supply					
21	AIN1	- 1	ch A input 1 / 200 kΩ pull-down at internal					
22	AIN2	I	ch A input 2 / 200 kΩ pull-down at internal					
23	PWMA	I	ch A PWM input / 200 kΩ pull-down at internal					
24	VM1	_	Motor supply (2.5 V~13.5 V)					

H-SW Control Function

Input			Output			
IN1	IN2	PWM	STBY	OUT1	OUT2	Mode
н	Н	H/L	Н	L	L	Short brake
	Н	Н	Н	L	Н	CCW
L	П	L	Н	L	L	Short brake
Н	H L	Н	Н	н	L	CW
П	L	L	Н	L	L	Short brake
L	L	Н	Н	OFF (High impedance)		Stop
H/L	H/L	H/L	L	OFF (High impedance)		Standby



Code pour module 16 bits:

http://henrysbench.capnfatz.com/henrys-bench/arduino-voltage-measurements/arduino-ads1115-module-getting-started-tutorial/

```
#include <Wire.h>
#include <Adafruit ADS1015.h>
Adafruit ADS1115 ads(0x48);
float Voltage = 0.0;
void setup(void)
 Serial.begin (9600);
 ads.begin();
void loop(void)
 int16 t adc0; // we read from the ADC, we have a sixteen bit integer as a result
 adc0 = ads.readADC SingleEnded(0);
 Voltage = (adc0 * 0.1875)/1000;
 Serial.print("AINO: ");
 Serial.print(adc0);
 Serial.print("\tVoltage: ");
 Serial.println(Voltage, 7);
 Serial.println();
 delay(1000);
```