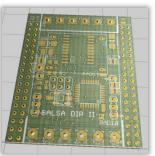
JKW boards – Confusion avoidance chart ©

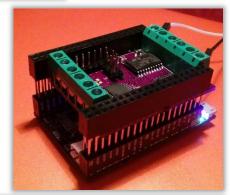
LEDv1.1 / Motor v1.1 / preSalsa / Salsa / Salsa II / Queso DIP

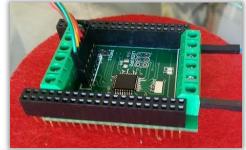
Function X = possible - = not possible * = 'Or' E.g. Motor OR Mosfet / Optional	Motor v1.1	LEDv1.1	PreSalsa	Salsa	Salsa II	Queso
Screw terminals that connects an external power supply to CHIP CHR-IN	Х	Х	Х	Х	Х	Х
Controller connected via I2C	-	Х	Х	Х	Х	-
Pins for driving ws2812 LEDs	-	Х	Х	Х	Х	-
Pins for analog reading	-	Х	Х	Х	Х	-
"Real-time" GPIOs	-	Х	Х	Х	Х	-
Mosfets to dim a lot of LEDs	-	4	4*	4*	4*/2X	-
Motor driver Channels	2	-	2*	2*	2*/1X	-
Input for "High voltage" (~7V for the Motor)	Х	-	-	-	X	-
Internal connection to CHIP power button pin, e.g. to start the CHIP from power off, or to shut the CHIP down	-	-	-	Х	Х	÷
"Seamless power" (run on CHIP battery, with CHIP powered down)	-	-	-	-	Х	-
Option for onboard power supply (DC in 7-28V)	-	-	-	-	х	Х
CHIP pins used by board (besides I2C bus which is not exclusively used)	*4	*1	*5	*6	*6	-
On board Ws2812 LED option	-	-	-	*	*	-
On board general purpose button (e.g. shutdown for CHIP?)	-	-	-	-	*	-
On board general purpose LED	-	-	Х	*	*	-
4x USB Hub	-	-	-	-	-	Х

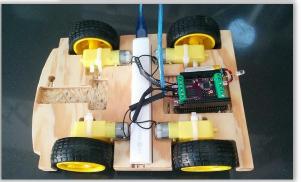
preSalsa, Salsa and Salsa II can all be assembled as Dual-channel (4 outputs) Motor driver OR 4-channel Mosfet - PWM Driver (Salsa II can be configured as 1 channel motor AND 2 channel Mosfet – PWM)





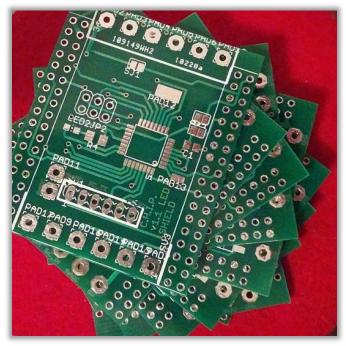


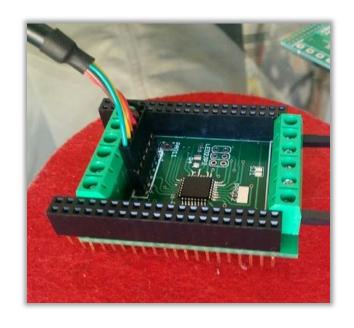


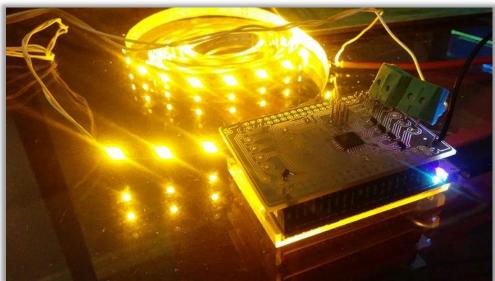


LED DIP v1.1

Photo



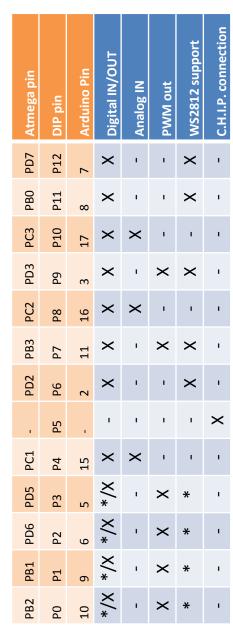


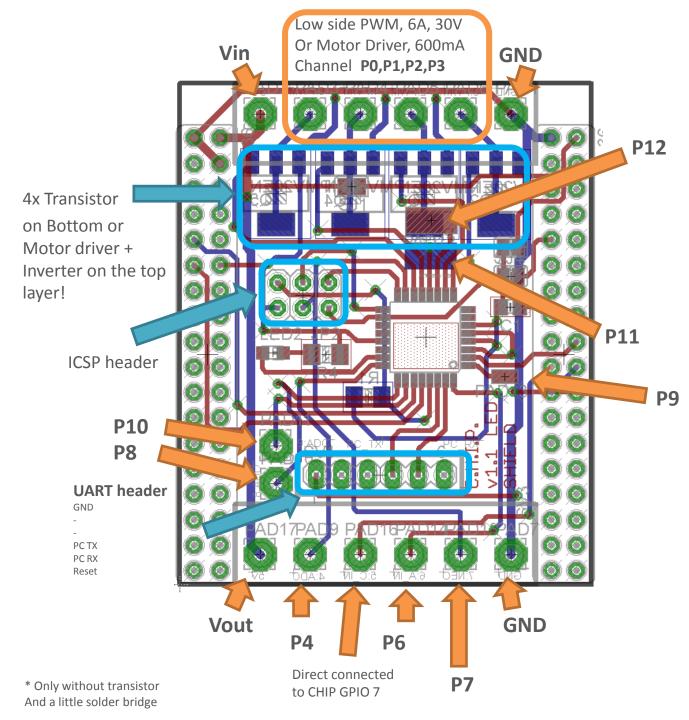




LED DIP v1.1

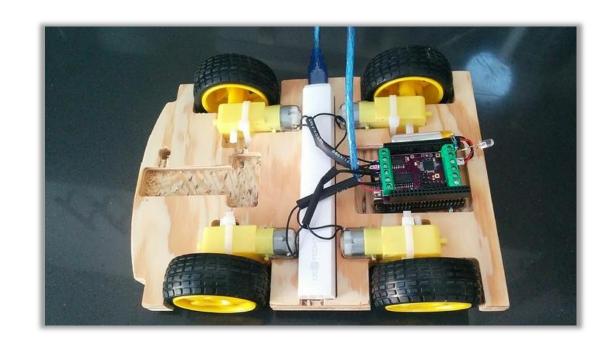
PinOut



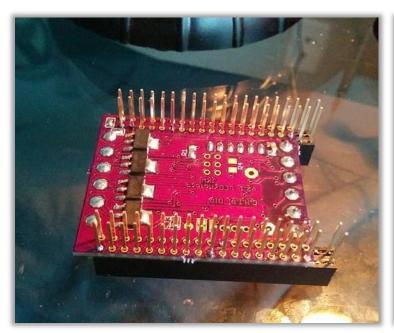


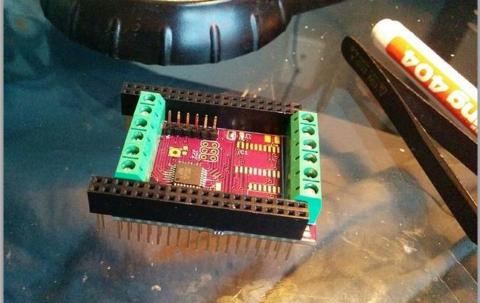
preSalsa DIP

Motor Version ->



LED Driver / Mosfet Version

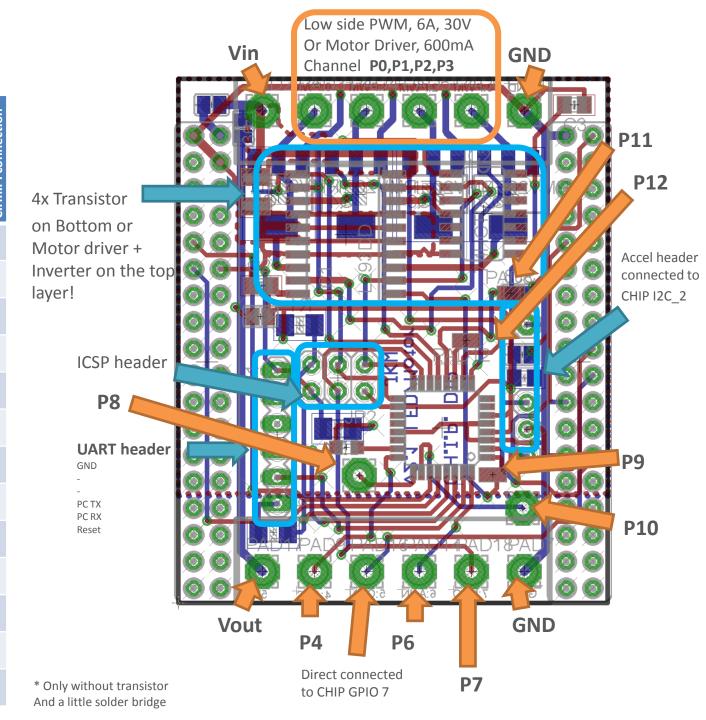




preSalsa DIP

PinOut

Atmega pin	DIP pin	Arduino Pin	Digital IN/OUT	Analog IN	PWM out	WS2812 support	C.H.I.P. connection
PD7	P12	7	×	•	•	×	ı
PB0	P11	∞	×	,	1	×	ı
PC3	P10	17	×	×	ı	ı	ı
PD3	P9	3	×	ı	×	×	ı
PC2	P8	16	×	×	•	ı	ı
PB3	Р7	11	×	ı	×	×	ı
PD2	P6	2	×	•	•	×	1
	P5		'	•	'		×
PC1	P4	15	×	×	•	ı	ı
PD5	P3	2	$\underset{*}{\times}$	1	×	*	ı
PD6	P2	9	$\underset{*}{\times}$	•	×	*	ı
PB1	P1	6	$\underset{*}{\times}$		×	*	ı
PB2	PO	10	$\underset{*}{\times}$	•	×	*	ı



PreSalsa

Jumper Config

ulli	der corring				
SJ	Function	SJ1			
1	Vin to Charge inIf your input voltage is 5V close this jumper. Your Vin will charge your Battery	211	SJ5		
2	 Vout to VCC If your Vin is not 5V close it, to get CHIPs 5V on the output If your Vin is 5V and you close SJ5, close this one to power the DIP from the VIN, in this case you must leave SJ3 and SJ4 open! 				
3	 CHIP 5V to Vcc (bot) If you won't power the DIP via VIN, close this jumper to supply 5V power via the CHIP If you've destroyed your CHIP onboard 5V, close it to supply power to the USB © 		SJ2		
4	 CHIP 3.3V to Vcc (bot) If you want to work the DIP on the (limited) 3.3V of the CHIP 				
5	Vin to Vout • To forward your input to the output				
	Combine : SJ1 + SJ5 + SJ2 if your Vin is 5V or SJ2 + SJ3 if you only draw a few mA to use the CHIPs 5V				
Never see biggs					
weve	Never combine: SJ3 and SJ4 or				

SJ4 + SJ2 + SJ5 and supply power via Vin/Vout

SJ3 + SJ2 + SJ5 and supply power via Vin/Vout

SJ1 if your Vin is NOT ~5V

or SJ2 + SJ5 if your **Vin > 5V**

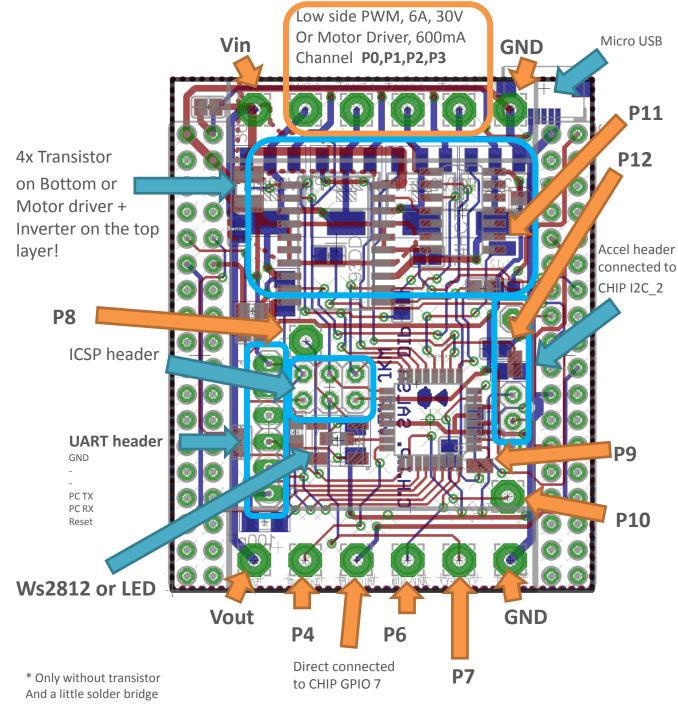
Low side PWM, 6A, 30V Vin **GND** Channel T0,T1,T2,T3 SJ3 SJ4 Vout **GND** PD2 or or Direct connected PB3 or to CHIP GPIO 7

Salsa DIP

WAITING ON CHINA POST ORDERED 2016/02/10

Configuration PWM dimmer Configuration Motor driver

Atmega pin	DIP pin	Arduino Pin	Digital IN/OUT	Analog IN	PWM out	WS2812 support	C.H.I.P. pin	Motor Pins
PCO	P16	14	×	ı	ı	1	1	
PD4	P15	4	×	1	,	ı	ı	,
PB5	P14	13	×	í	ı	í	ſ	Ы
PB4	P13	12	×	ı	1	ı	ı	DR
PD7	P12	7	×	í	ı	×	í	
PB0	P11	∞	×	ı	1	×	ı	
PC3	P10	17	×	×	ı	ı	1	
PD3	P9	33	×	,	×	×	ı	ER
PC2	84 84	16	×	×	ı	ı	1	
PB3	Р7	11	×	ī	×	×	ī	
PD2	9e	2	×	ı	ı	×	ı	•
	P5		1	ı	ı	'	×	•
PC1	P4	15	×	×	ı	ı	ı	•
PD5	Ь3	2	× *	ı	×	*	ı	×
PD6	P2	9	× *	1	×	*	ı	
PB1 P	P1	6	× *	,	×	*	,	1
PB2	P0	10	× *	1	×	*	1	딥



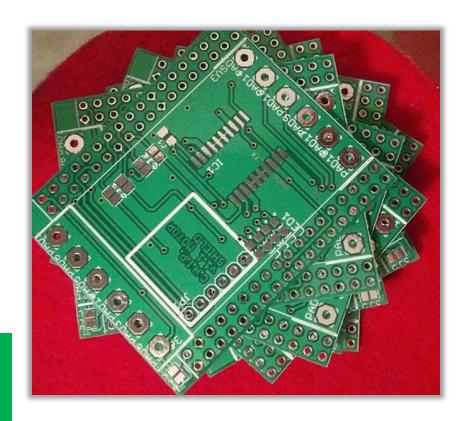
Salsa II DIP

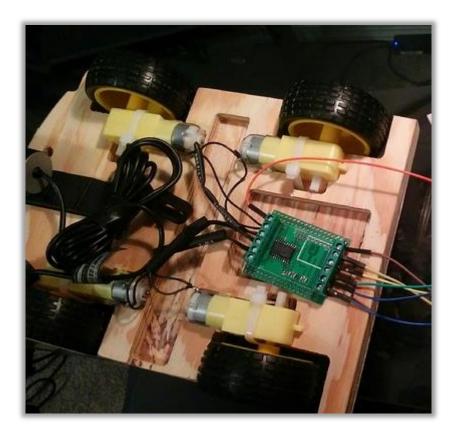
ORDERED 2016/03/03

Configuration PWM dimmer Configuration Motor driver

Motor DIP v1.1

Photos

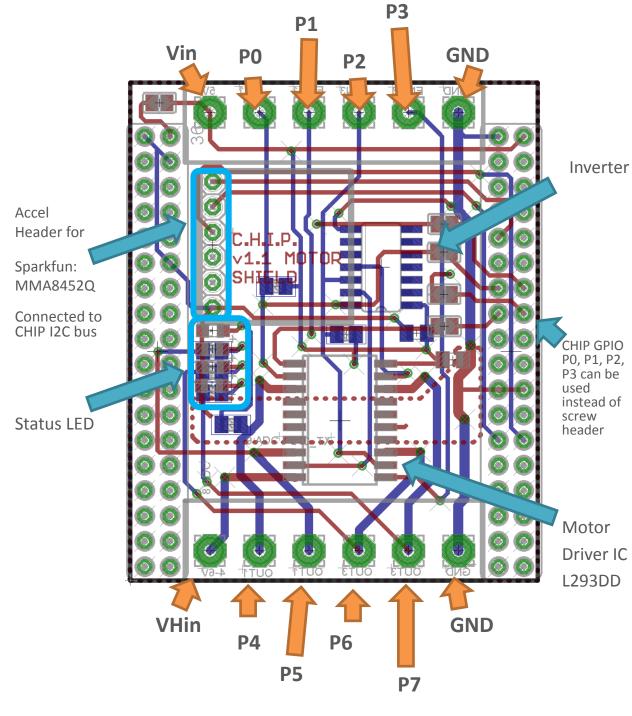




Motor DIP v1.1

Pin Out

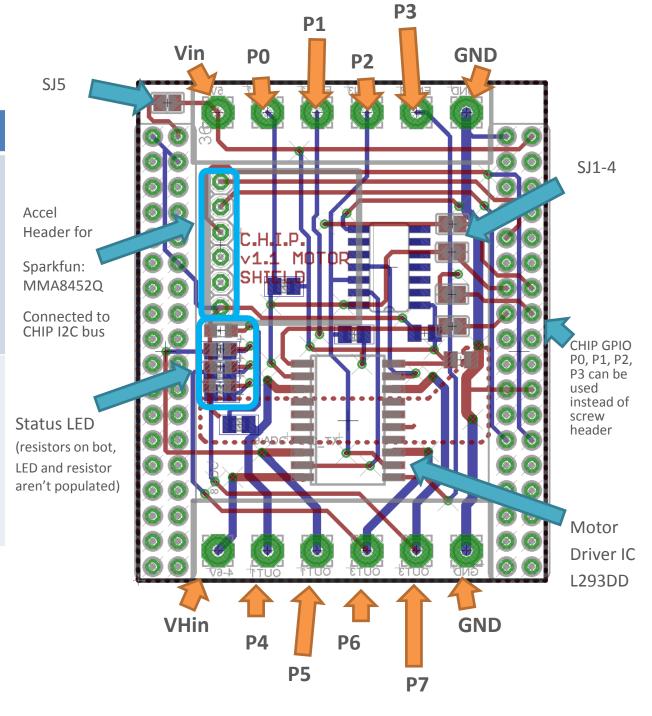
#	Function
Vin	Logic voltage, 5V
Р0	Channel 1 direction
P1	Channel 1 enable
P2	Channel 3 direction
Р3	Channel 3 enable
GND	Ground for logic voltage
VHin	"High" voltage for Motor (5-36 Volt), can be connected to Vin
P4	Channel 1 output
P5	Channel 2 output (inverse of channel 1)
P6	Channel 3 output
P7	Channel 4 output (inverse of channel 3)
GND	Ground for "high" voltage



Motor DIP v1.1

Jumper Config

SJ	Function
1-4	 Use CHIP GPIO as input Close them, if you use the CHIP GPIO to generate the control signals. Leave them open if you want to use the screw header
5	 Vin to Charge in Close it if you Vin is 5V from a power supply or external battery to power this CHIP over this pin as well Leave it open, if you feed the CHIP 5V to the Vin



Queso DIP v0.1 Photos

ORDERED 2016/03/01

More photos



