

#	Pin	GPIO	Special	Analog	Timer 0 (8b)	Timer 1	Timer 2 (8b)	Timer 3	Timer 4	UART	SPI	I2C	INT	Usage	HW Notes	Function
12	PB0	OUT	CLKO			ICP1								DCCD Enable	Output, Active high	Turns on Low side MOSFET
13	PB1					OC1A								DCCD PWM	Output, Active high	Turns on High side MOSFET, Only PWM, <100% Duty cycle max.
14	PB2					OC1B					SS0			LED PWM	Output, Active high	Turns on LED common switch.
15	PB3						OSC2A			TXD1	MOSI0			ISP / Config UART	UART TX	Configuration interface
16	PB4									RXD1	MISO0			ISP / Config UART	UART RX	
17	PB5	OUT								XCK1	SCK0			ISP / Handbrake pull-up	Output, Active high	Software selectable Handbrake input pull-up
7	PB6	IN	XTAL1 / TOSC1											HBRAKE	Input, Active high	Handbrake input, trough inverting level shifter
8	PB7	IN	XTAL2 / TOSC2											BRAKE	Input, Active low	Brake lights input, trough inverting level shifter
23	PC0			ADC0							MISO1			DCCD Current	ADC, 2A/V	DCCD coil current, includes flyback current, Low pass filtered
24	PC1			ADC1							SCK1			DCCD Voltage	ADC, 4094mV/V	DCCD coil voltage on switching side, Low pass filtered
25	PC2			ADC2										Batery voltage	ADC, 4094mV/V	DCCD coil supply (Battery) voltage
26	PC3			ADC3										Battery current	ADC, 4A/V	DCCD coil supply (Battery) current
27	PC4			ADC4								SDA0		Potentiometer / TPS	ADC, Direct	Potentiometer or other Analog signal input, HiZ
28	PC5			ADC5								SCL0		MODE Button	ADC, Direct /w pull-up	Mode button of Analog signal input, with HW pull-up to 5V
29	PC6		RESET											Reset & ISP		Reset
30	PD0	OUT						OC3A		RXD0				DSP0	Output, Active high	LED Display, 0% (OPEN) indicator
31	PD1	OUT							OC4A	TXD0				DSP1	Output, Active high	LED Display, 20% indicator
32	PD2	OUT						OC3B	OC4B				INT0	DSP2	Output, Active high	LED Display, 40% indicator
1	PD3	OUT					OC2B						INT1	DSP3	Output, Active high	LED Display, 60% indicator
2	PD4	OUT			T0					XCK0				DSP4	Output, Active high	LED Display, 80% indicator
9	PD5	OUT			OC0B	T1								DSP5	Output, Active high	LED Display, 100% (LOCK) indicator
10	PD6	IN		AIN0	OC0A									Speed pull-up	Output, Active high	Software selectable pull-up/down for speed inputs. Common for both.
11	PD7	IN		AIN1										DIMM IN	Input, Active low	Dimm input, trough inverting level shifter
3	PE0			ACO					ICP4			SDA1		Speed input 2	Timer input capture	Speed input
6	PE1	IN							T4			SCL1		DOWN Button	Input, Active low	Button input. Has HW pull-up to 5V
19	PE2			ADC6				ICP3			SS1			Speed input 1	Timer input capture	Speed input
22	PE3	IN		ADC7			T3				MOSI1			UP Button	Input, Active low	Button input. Has HW pull-up to 5V