

CN7	CN10	MCU Pin #	PINs	FUNCTIONs	LABELs	Notes
1		51	PC10	UART4_TX/SPI3_SCK		
2		52	PC11	UART4_RX/SPI3_MISO		
3		53	PC12	SPI3_MOSI		
4		54	PD2			Unused
5			VDD			
6			E5V			
7		60	BOOT0			
8			GND			
9			N.C.			No Connect
10			N.C.			No Connect
11			N.C.			No Connect
12			+3.3V			
13		46	PA13*	SYS_JTMS-SWDIO	TMS	
14			RESET			
15		49	PA14*	SYS_JTCK-SWCLK	TCK	
16			+3.3V			
17		50	PA15			Unused
18			+5V			
19			GND			
20			GND			
21		59	PB7	GPIO_Output	LCD_D7	
22			GND			
23		2	PC13	GPIO_EXTI13	B1 [Blue PushButton]	
24			VIN			
25		3	PC14-OSC32_IN*	RCC_OSC32_IN		
26			N.C.			No Connect
27		4	PC15-OSC32_OUT*	RCC_OSC32_OUT		
28		14	PA0	GPIO_Output	MOTOR1_DIR1	
29		5	PF0-OSC_IN	RCC_OSC_IN		
30		15	PA1	GPIO_Output	MOTOR1_DIR2	
31		6	PF1-OSC_OUT	RCC_OSC_OUT		
32		20	PA4	DAC1_OUT1	STEP_VREF	
33		1	VBAT			
34		26	PB0			Unused
35		10	PC2	ADC1_IN8	ADC_3	
36		9	PC1	ADC1_IN7	ADC_2	
37		11	PC3	GPIO_Output	STEP_RST	
38		8	PC0	ADC1_IN6	ADC_1	
	1	40	PC9	GPIO_Input	STEP_MONI	
	2	39	PC8	GPIO_Output	STEP_PS	
	3	61	PB8	I2C1_SCL		
	4	37	PC6			
	5	62	PB9	I2C1_SDA		
	6	25	PC5	GPIO_Output	STEP_DIR	
	7	12	AVDD			
	8		U5V			
	9		GND			
	10		N.C.			No Connect
	11	21	PA5	GPIO_Output	LD2 [Green Led]	
	12	45	PA12	TIM4_CH2	MOTOR2_B	
	13	22	PA6	TIM3_CH1	MOTOR1_A	
	14	44	PA11	TIM4_CH1	MOTOR2_A	
	15	23	PA7	TIM3_CH2	MOTOR1_B	
	16	33	PB12	GPIO_Output	LCD_E	
	17	58	PB6	GPIO_Output	LCD_D6	
	18	30	PB11	GPIO_Output	MOTOR2_DIR2	
	19	38	PC7			
	20		GND			
	21	42	PA9	TIM1_CH2	DC_MOTOR_PWM2	
	22	28	PB2			Unused
	23	41	PA8	TIM1_CH1	DC_MOTOR_PWM1	
	24	27	PB1			Unused
	25	29	PB10	GPIO_Output	MOTOR2_DIR1	
	26	36	PB15	GPIO_Output	LCD_RW	
	27	56	PB4	GPIO_Output	LCD_D4	
	28	35	PB14	TIM15_CH1	STEP	
	29	57	PB5	GPIO_Output	LCD_D5	
	30	34	PB13	GPIO_Output	LCD_RS	
	31	55	PB3*	SYS_JTDO-TRACESWO	SWO	
	32	12	AGND			
	33	43	PA10	TIM1_CH3	LCD_BKLT	
	34	24	PC4	GPIO_Output	STEP_OE	
	35	16	PA2	USART2_TX	USART_TX	
	36		N.C.			No Connect
	37	17	PA3	USART2_RX	USART_RX	
	38		N.C.			No Connect