	Daugh	Col ter Board Low Powe	our Legend GROUND	1/0																			
	_	er Board Low Powe er Board High Powe	POWER	OTHER				Alternate F	unctions														
Positic Name	,	e Arduino UNType	Attached Device		tur Voltage T	ol Signal	Label	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	ADC	DAC
2 PC13	CN7-1-12	I/O	7111401104 201100	FT	5 V		B1 [Blue Push				7		7.11 0			7.11 -	7.1.0	7					
3 PC14	CN7-1-13	1/0		FT	5 V	RCC_OSC32_I																	
4 PC15	CN7-1-14	1/0		FT	5 V	RCC_OSC32_0																	
5 PH0	CN7-1-15	1/0		FT	5 V	RCC_OSC_IN																	
6 PH1	CN7-1-16	1/0		FT	5 V	RCC_OSC_OU	т																
7 NRST	CN7-2-7	Reset Reset																					
8 PC0	CN7-2-19	A5 I/O	LR_ULTRA_OUT	FT	5 V									SAI1_MCLK_B				USB_OTG_HS	_ULPI_STP			ADC123_IN10	
9 PC1	CN7-2-18	A4 I/O	LR_ULTRA_IN	FT	5 V								I2S3_SD/SPI3_	/\ SAI1_SD_A	I2S2_SD/SPI2_	MOSI						ADC123_IN11	
10 PC2	CN7-1-18	1/0		FT	5 V								SPI2_MISO					USB_OTG_HS	_ULPI_DIR			ADC123_IN12	
11 PC3	CN7-1-19	1/0		FT	5 V								12S2_SD/SPI2_	MOSI				USB_OTG_HS	_ULPI_NXT			ADC123_IN13	
14 PA0	CN7-2-14	A0 I/O	F_ULTRA_IN	FT	5 V				TIM2_CH1/TIM	12, TIM5_CH1	TIM8_ETR				USART2_CTS	UART4_TX						ADC123_IN0	
15 PA1	CN7-2-15	A1 I/O	F_ULTRA_OUT	FT	5 V				TIM2_CH2	TIM5_CH2					USART2_RTS	UART4_RX	QUADSPI_BK	1_103				ADC123_IN1	
16 PA2	CN10-1-18	D1 I/O	Default Serial	FT	5 V	USART2_TX	USART_TX		TIM2_CH3	TIM5_CH3	TIM9_CH1				USART2_TX							ADC123_IN2	
17 PA3	CN10-1-19	D0 I/O	Default Serial	FT	5 V	USART2_RX	USART_RX		TIM2_CH4	TIM5_CH4	TIM9_CH2			SAI1_FS_A	USART2_RX			USB_OTG_HS	_ULPI_D0			ADC123_IN3	
20 PA4	CN7-2-16	A2 I/O	LF_ULTRA_IN	TC									12S1_WS/SPI1	_f 12S3_WS/SPI3	LUSART2_CK					USB_OTG_HS	S_{DCMI_HSYNC	ADC12_IN4	DAC_OUT1
21 PA5	CN10-1-6	D13 Output	PYR INTAKE MOTOR	TC		GPIO_Output	LD2 [Green Le	d]	TIM2_CH1/TIM	12_ETR	TIM8_CH1N		I2S1_CK/SPI1_	SCK				USB_OTG_HS	_ULPI_CK			ADC12_IN5	DAC_OUT2
22 PA6	CN10-1-7	D12 I/O	LIFT MOTOR	FT	5 V				TIM1_BKIN	TIM3_CH1	TIM8_BKIN		SPI1_MISO	I2S2_MCK			TIM13_CH1				DCMI_PIXCLK		
23 PA7	CN10-1-8	D11 I/O	DRIVE MOTOR RIGHT	FT	5 V				TIM1_CH1N	TIM3_CH2	TIM8_CH1N		12S1_SD/SPI1_	MOSI			TIM14_CH1					ADC12_IN7	
24 PC4	CN10-2-17	1/0		FT	5 V								I2S1_MCK			SPDIFRX_IN2						ADC12_IN14	
25 PC5	CN10-2-3	1/0		FT	5 V										USART3_RX	_						ADC12_IN15	
26 PB0	CN7-2-17	A3 I/O	LF_ULTRA_OUT	FT	5 V				TIM1_CH2N	TIM3_CH3	TIM8_CH2N				12S3_SD/SPI3_	NUART4_CTS		USB_OTG_HS		SDIO_D1		ADC12_IN8	
27 PB1	CN10-2-12	1/0	LIMIT_SW_2 LIFT DOWN	FT	5 V				TIM1_CH3N	TIM3_CH4	TIM8_CH3N							USB_OTG_HS		SDIO_D2		ADC12_IN9	
28 PB2	CN10-2-11	1/0	LIMIT_SW_1 LIFT UP	FT	5 V				TIM2_CH4					SAI1_SD_A	I2S3_SD/SPI3_	MOSI	QUADSPI_CLE	K USB_OTG_HS		SDIO_CK			
29 PB10	CN10-1-13	D6 I/O	UART3, RX IR SHROUDED RE		5 V				TIM2_CH3			I2C2_SCL	12S2_CK/SPI2_		USART3_TX		-	USB_OTG_HS					
33 PB12 34 PB13	CN10-2-8	1/0		FT	5 V				TIM1_BKIN			I2C2_SMBA	12S2_WS/SPI2		USART3_CK		CAN2_RX	USB_OTG_HS		USB_OTG_HS	i_ID		
34 PB13 35 PB14	CN10-2-15	1/0		FT	5 V				TIM1_CH1N				12S2_CK/SPI2_	SCK	USART3_CTS		CAN2_TX	USB_OTG_HS	_ULPI_D6	-			
36 PB15	CN10-2-14	1/0		FT	5 V				TIM1_CH2N		TIM8_CH2N		SPI2_MISO		USART3_RTS		TIM12_CH1			USB_OTG_HS			
37 PC6	CN10-2-13 CN10-2-2	1/0	LIMIT_SW_3 CHECK PYR	FT	5 V			RTC_REFIN	TIM1_CH3N	TIM3_CH1	TIM8_CH3N TIM8_CH1	F14D1004 001	12S2_SD/SPI2_	MOSI		USART6_TX	TIM12_CH2			USB_OTG_HS	DCMI_D0		
38 PC7	CN10-2-2 CN10-1-10	D9 I/O		FTf	5 V					TIM3_CH1	TIM8 CH2	FMPI2C1_SCL	12S2_WCK 12S2_CK/SPI2_	CIDED MOV	SPDIFRX_IN1					SDIO_D6 SDIO_D7	DCMI_D0		
39 PC8	CN10-1-10 CN10-2-1	D9 1/O		FT	5 V			SYS TRACED	,	TIM3_CH2	TIM6_CH2	FMFI2CI_SDA	IZOZ_UNOPIZ_	_c 1200_INICK	UARTS RTS	USART6_RX				SDIO_D0	DCMI D2		
40 PC9	CN10-2-1 CN10-1-1	1/0		FT	5 V			RCC MCO 2	,	TIM3_CH3	TIM6_CH3	I2C3 SDA	I2S CKIN		UARTS_KTS	USAKTO_CK	QUADSPI BK	1 100		SDIO_D0	DCMI_D3		
41 PA8	CN10-1-1	D7 I/O		FT	5 V			RCC_MCO_1	TIM1 CH1	TIMO_CFI4	TIMO_CH4	I2C3_SDA	IZO_OKIN		USART1_CK		QOADSFI_BK	USB_OTG_FS	SOF	3010_01	DCIVII_D3		
42 PA9	CN10-1-11	D8 I/O	CLAW SLIDE SERVO	FT	5 V			1100_11100_1	TIM1_CH2			I2C3 SMBA	12S2_CK/SPI2_	SSAI1 SD B	USART1_TX			000_010_10	_001		DCMI_D0		
43 PA10	CN10-1-17	D2 I/O	UART1, RX IR UNSHROUDED		5 V				TIM1_CH3			1200_OMB/	ILOE_ONON IL_	_c o/#1_oo_o	USART1_RX			USB_OTG_FS	ID		DCMI_D1		
44 PA11	CN10-2-7	1/0	,	FT	5 V				TIM1_CH4						USART1_CTS		CAN1 RX	USB_OTG_FS					
45 PA12	CN10-2-6	1/0		FT	5 V				TIM1_ETR						USART1_RTS		CAN1_TX	USB_OTG_FS					
46 PA13	CN7-1-7	I/O		FT	5 V	SYS_JTMS-SW	/C TMS	SYS_JTMS-SW															
49 PA14	CN7-1-8	I/O		FT	5 V	SYS_JTCK-SW		SYS_JTCK-SW															
50 PA15	CN7-1-9	I/O		FT	5 V				TIM2_CH1/TIM	12_ETR		CEC	12S1_WS/SPI1	1 12S3_WS/SPI3	NSS	UART4_RTS							
51 PC10	CN7-1-1	I/O		FT	5 V									12S3_CK/SPI3_		UART4_TX	QUADSPI_BK	1_IO1		SDIO_D2	DCMI_D8		
52 PC11	CN7-2-1	I/O		FT	5 V									SPI3_MISO	USART3_RX	UART4_RX	QUADSPI_BK2	2_NCS		SDIO_D3	DCMI_D4		
53 PC12	CN7-1-2	I/O		FT	5 V							I2C2_SDA		12S3_SD/SPI3_	N USART3_CK	UART5_TX				SDIO_CK	DCMI_D9		
54 PD2	CN7-2-2	I/O		FT	5 V					TIM3_ETR						UART5_RX				SDIO_CMD	DCMI_D11		
55 PB3	CN10-1-16	D3 I/O	CLAW GRIP SERVO	FT	5 V	SYS_JTDO-SW	( SWO	SYS_JTDO-SW	/CTIM2_CH2			I2C2_SDA	I2S1_CK/SPI1_	S 1283_CK/SP13_	SCK								
56 PB4	CN10-1-14	D5 I/O		FT	5 V			SYS_JTRST		TIM3_CH1		I2C3_SDA	SPI1_MISO	SPI3_MISO	12S2_WS/SPI2_	NSS							
57 PB5	CN10-1-15	D4 I/O		FT	5 V					TIM3_CH2		I2C1_SMBA	I2S1_SD/SPI1_	N 12S3_SD/SPI3_	MOSI		CAN2_RX	USB_OTG_HS	_ULPI_D7		DCMI_D10		
58 PB6	CN10-1-9	D10 I/O	DRIVE MOTOR LEFT	FT	5 V					TIM4_CH1	CEC	I2C1_SCL			USART1_TX		CAN2_TX	QUADSPI_BK1	_NCS		DCMI_D5		
59 PB7	CN7-1-11	I/O		FT	5 V					TIM4_CH2		I2C1_SDA			USART1_RX	SPDIFRX_IN0					DCMI_VSYNC		
60 BOOT0		Boot		В																			
61 PB8	CN10-1-2	D15 I/O	I2C1	FT	5 V				TIM2_CH1/TIM	12, TIM4_CH3	TIM10_CH1	I2C1_SCL					CAN1_RX			SDIO_D4	DCMI_D6		
62 PB9	CN10-1-3	D14 I/O	I2C1	FT	5 V				TIM2_CH2	TIM4_CH4	TIM11_CH1	I2C1_SDA	12S2_WS/SPI2	I SAI1_FS_B			CAN1_TX			SDIO_D5	DCMI_D7		