left side

remapable	default function	Arduino	Name	Pin	Pin	Name	Arduino	default function	remapable
	TX Serial2*	D31	PC10	1	2	PC11	D44	RX Serial2*	
	SDIO_CK		PC12	3	4	PD2	D30	TIM3_ETR	
			VDD	5	6	E5V			
			Boot0	7	8	GND	GND		
			NC	9	10	NC	NC		
			NC	11	12	IORef	IoRef		
	SWDIO	D41	PA13	13	14	RST	RST		
	SWCKL	D42	PA14	15	16	3,3V	3,3V		
TIM2_CH1_ETR/SPI1_SS	JTDI	D43	PA15	17	18	5V	5V		
			GND	19	20	GND	GND		
	I2C1_SDA/TIM4_CH2	D22	PB7	21	22	GND	GND		
	User Button	D27	PC13	23	24	Vin	Vin		
	32khz!	D28	PC14	25	26	NC			
	32khz!	D29	PC15	27	28	PA0	A0/D16	ADC12_IN0/TIM2_CH1_ETR	
	OSC**		PD0	29	30	PA1	A1/D17	ADC12_IN1/TIM2_CH2	
	OSC**		PD1	31	32	PA4	A2/D18	SPI1_SS/ADC12_IN4	
			Vbat	33	34	PB0	A3/D19	ADC12_IN8/TIM3_CH3	TIM1_CH2N
	ADC12_IN12	D23	PC2	35	36	PC1	A4/D20	ADC12_IN11	
	ADC12_IN13	D24	PC3	37	38	PC0	A5/D21	ADC12_IN10	

right side

remapable	default function	Arduino	Name	Pin	Pin	Name	Arduino	default function	remapable
TIM3_CH4		D40	PC9	1	2	PC8	D39		TIM3_CH3
I2C1_SCL	TIM4_CH3	D15	PB8	3	4	PC6	D38		TIM3_CH1
I2C1_SDA	TIM4_CH4	D14	PB9	5	6	PC5	D26	ADC12_IN15	
		VDD	AVDD	7	8	U5V			
		GND	GND	9	10	NC			
	LED/SPI1_SCK/ADC12_IN5	D13	PA5	11	12	PA12	D45	USBDP TIM1_ETR	
TIM1_BKIN	SPI1_MISO/ADC12_IN6/TIM3_CH1	D12	PA6	13	14	PA11	D33	TIM1_CH4	
TIM1_CH1N	SPI1_MOSI/ADC12_IN7/TIM3_CH2	D11	PA7	15	16	PB12	D34	SPI2_SS/I2C2_SMBAl/TIM1_BKIN	
	I2C1_SCL/TIM4_CH1	D10	PB6	17	18	PB11		I2C2_SDA	TIM2_CH4

TIM3_CH2		D9	PC7	19	20	GND			
	TX Serial/TIM1_CH2	D8	PA9	21	22	PB2	D46	Boot1	
	TIM1_CH1/MCO	D7	PA8	23	24	PB1	D32	ADC12_IN9/TIM3_CH4	TIM1_CH3N
TIM2_CH3	I2C2_SCL	D6	PB10	25	26	PB15	D37	SPI2_MOSI/TIM1_CH3N	
TIM3_CH1/SPI1_MISO		D5	PB4	27	28	PB14	D36	SPI2_MISO/TIM1_CH2N	
TIM3_CH2 /SPI1_MOSI	I2C1_SMBAl	D4	PB5	29	30	PB13	D35	SPI2_SCK/TIM1_CH1N	
TIM2_CH2 /SPI1_SCK	**RX Serial** /SWO**	D3	PB3	31	32	AGND			
	RX Serial/TIM1_CH3	D2	PA10	33	34	PC4	D25	ADC12_IN14	
desolder jumper for use	TX Serial1**/ADC12_IN2/TIM2_CH3	D1	PA2	35	36	NC			
desolder jumper for use	RX Serial1**/ADC12_IN3/TIM2_CH4	D0	PA3	37	38	NC			

*SW remapped

**solder mod

! not in use

5V Tolerant

	Arduino Header
	Arduino pin NR
Dxx	save to use?