

ST morpho

Pin	Name	EBlock2	Function		Name	EBlock2	Function	Pin		Pin	Name	EBlock2	Function		Name	EBlock2	Function	Pin
1	PC10				PC11			2		1	PC9	RC0			PC8	RB0 / D0		2
3	PC12				PD2			4		3	PB8	RC1			PC6	RB1 / D1		4
5	VDD				E5V			6		5	PB9	RC2			PC5	RB2 / D2		6
7	BOOT0 <sup>(1)</sup>				GND			8		7	AVDD				U5V <sup>(2)</sup>			8
9	-				-			10		9	GND				-			10
11	-				IOREF			12		11	PA5	RC3 / LED	SPI1_SCK		PA12	RB3 / D3		12
13	PA13 <sup>(3)</sup>				RESET			14		13	PA6	RC4 / LED	SPI1_MISO		PA11	RB4 / RS		14
15	PA14 <sup>(3)</sup>				+3.3V			16		15	PA7	RC5 / LED	SPI1_MOSI		PB12	RB5 / En	SPI2	16
17	PA15		SPI1a_NSS		+5V			18		17	PB6	RC6			PB11			18
19	GND				GND			20		19	PC7	RC7			GND			20
21	PB7				GND			22		21	PA9				PB2	RB7		22
23	PC13				VIN			24		23	PA8				PB1	RD0		24
25	PC14				-			26		25	PB10	RB6			PB15	RD1 / Sw	SPI2	26
27	PC15				PA0	RA0 / LDR		28		27	PB4		SPI1a_MISO		PB14	RD2 / Sw	SPI2	28
29	PD0				PA1	RA1 / Pot		30		29	PB5	RD7 / Sw	SPI1a_MOSI		PB13	RD3 / Sw	SPI2	30
31	PD1				PA4	RA2 / Temp	SPI1_NSS	32		31	PB3	RD6 / Sw	SPI1a_SCK		AGND			32
33	VBAT				PB0	RA3		34		33	PA10	RD5			PC4	RD4		34
35	PC2				PC1 or PB9 <sup>(4)</sup>	RA4		36		35	PA2				-			36
37	PC3	RA6			PC0 or PB8 <sup>(4)</sup>	RA5		38		37	PA3				-			38

Arduino

	Pin	Name	STM32	Function
CN6 power	1	NC	-	-
	2	IOREF		3.3V Ref
	3	RESET	NRST	RESET
	4	+3.3V	-	3.3V input/output
	5	+5V		5V output
	6	GND		ground
	7	GND		ground
	8	VIN		Power input
CN8 analog	1	A0	PA0	ADC_0
	2	A1	PA1	ADC_1
	3	A2	PA4	ADC_4
	4	A3	PB0	ADC_8
	5	A4	PC1 or PB9 <sup>(1)</sup>	ADC_11 (PC1) or I2C1_SDA (PB9)
	6	A5	PC0 or PB8 <sup>(1)</sup>	ADC_10 (PC0) or I2C1_SCL (PB8)
CN5 digital	10	D15	PB8	I2C1_SCL
	9	D14	PB9	I2C1_SDA
	8	AREF	-	AVDD
	7	GND		ground
	6	D13	PA5	SPI1_SCK
	5	D12	PA6	SPI1_MISO
	4	D11	PA7	TIM3_CH2 or SPI1_MOSI
	3	D10	PB6	TIM4_CH1 or SPI1_CS
	2	D9	PC7	TIM3_CH2
CN9 digital	1	D8	PA9	-
	8	D7	PA8	-
	7	D6	PB10	TIM2_CH3
	6	D5	PB4	TIM3_CH1
	5	D4	PB5	-
	4	D3	PB3	TIM2_CH2
	3	D2	PA10	-
	2	D1	PA2	USART2_TX
	1	D0	PA3	USART2_RX

Port A = Misc  
Port B = Display  
Port C = LEDs - LED + 230R to Gnd  
Port D = Switches - 100K PD  
Port F = Not used