

User	uC	Morpho	CN7	Morpho	Arduino	uC	User	User	uC	Arduino	Morpho	CN10	Morpho	uC	User	
		PC10	1	2	PC11			USR_SW1	GPIO_EXTI9		PC9	1	2	PC8	GPIO_Output	YEL7_LED (LED7)
		PC12	3	4	PD2					D15	PB8	3	4	PC6	GPIO_Output	RED_LED (LED8)
		VDD	5	6	E5V					D14	PB9	5	6	PC5	ADC1_IN15	VPOT2_AIN
		BOOT0	7	8	GND					AVDD	AVDD	7	8	U5V		
		NC	9	10	NC	NC				GND	GND	9	10	NC		
		NC	11	12	IOREF	IOREF				D13	PA5	11	12	PA12	GPIO_Output	YEL3_LED (LED3)
SWDIO	SYS_JTMS_SWDIO	PA13	13	14	RESET	RESET		ANGS_NSS	GPIO_Output	D12	PA6	13	14	PA11	GPIO_EXTI11	USR_SW2
SWCLK	SYS_JTCK_SWCLK	PA14	15	16	3V3	3V3		PSENSE_AIN	ADC1_IN7	D11	PA7	15	16	PB12	GPIO_EXTI12	USR_SW3
RPSM_QA	TIM2_CH1	PA15	17	18	5V	5V				D10	PB6	17	18	NC		
		GND	19	20	GND	GND		GREEN_LED (LED9)	GPIO_Output	D9	PC7	19	20	GND		
		PB7	21	22	GND	GND		YEL6_LED (LED6)	GPIO_Output	D8	PA9	21	22	PB2	GPIO_Output	YEL2_LED (LED2)
YEL4_LED (LED4)	GPIO_Output	PC13	23	24	VIN	VIN		YEL5_LED (LED5)	GPIO_Output	D7	PA8	23	24	PB1	GPIO_Output	YEL1_LED (LED1)
notused	RCC_OSC32_IN	PC14	25	26	NC			ASENS_SCK	SPI2_SCK	D6	PB10	25	26	PB15	GPIO_EXTI15	USR_SW4
notused	RCC_OSC32_OUT	PC15	27	28	PA0	A0	GPIO_Input	DCMC_IN1_B	TIM3_CH1	D5	PB4	27	28	PB14	GPIO_EXTI14	USR_SW5
Clock Bypass	RCC_OSC_IN	PH0	29	30	PA1	A1	GPIO_Input	DCMC_IN2_B	TIM3_CH2	D4	PB5	29	30	PB13	GPIO_EXTI13	USR_SW6
Clock Bypass	RCC_OSC_OUT	PH1	31	32	PA4	A2	GPIO_Input	RPSM_QB	PS_LED_G	D3	PB3	31	32	AGND		
		VBAT	33	34	PB0	A3	GPIO_Output	PS_LED_R	DCMC_EN_A	D2	PA10	33	34	PC4	ADC1_IN14	VPOT1_AIN
ASENS_MISO	SPI2_MISO	PC2	35	36	PC1	A4	GPIO_Output	DCMC_EN_B	VCP_TX	D1	PA2	35	36	NC		
ASENS_MOSI	SPI2_MOSI	PC3	37	38	PC0	A5	GPIO_Output	RPMS_NSS	VCP_RX	D0	PA3	37	38	NC		

Jumpers	
JP1	short
JP2	1-2 short
JP3	1-2 short
JP4	1-2 short

HW connection			
PA0 (DCMC_IN1_B)	PB4 (DCMC_IN1_A)	only PB4 (DCMC_IN1_A) is programmed	
PA1 (DCMC_IN2_B)	PB5 (DCMC_IN2_A)	only PB5 (DCMC_IN1_A) is programmed	
paralelly programmed outputs			
PC1 (DCMC_EN_B)	PA10 (DCMC_EN_A)		

P5	Signal	
1	VCC	
2	RPSM_QA	PA15 - TIM2_CH1
3	RPSM_QB	PA4
4	GND	

P3	Signal	
1	VCC	
2	LCD_MOSI	PC12
3	LCD_SCK	PC10
4	LCD_NSS	PC11
5	PCD_RS	PD2
6	LCD_NRST	RESET
7	GND	
8	GND	

P9	Signal	
1	VCC	
2		PB6
3		PB7
4	GND	

P4	Signal	
1	VCC	
2	PS_LED_G	PB3
3	PS_LED_R	PB0
4	GND	

P8	Signal	
1	VCC	
2		PB8
3		PB9
4	GND	

P6	Signal	
1	VCC	
2	ASENS_MOSI	PC2
3	ASENS_MISO	PC3
4	ASENS_SCK	PB10
5	ANGS_NSS	PA6
6	RPMS_NSS	PC0
7	GND	
8	GNS	

P7	Signal	
1	PSV_MOT	PA7
2	GND	