

PE2	LCD Con - Encoder button	3.3	In	
PE3	LCD Con - Encoder A	3.3	In	
PE4	LCD Con - Encoder B	3.3	In	
PE5	EXP Con	0	In	
PE6	EXP Con	0	In	
VBAT		3.3		
PC13	EXP Con	0	In	
PC14	Auto Power Signal	0.1	In	
PC15	Hotend Fan Enable	0	Out	
VSS		0		
VDD		3.3		
PH0		1.7	Crystal	
PH1		1.7	Crystal	
NRST		3.3		
PC0	Hotend Sensor	3.3	Analog	
PC1	Hotbed Extend - Sensor (last pin)	3.3	Analog	
PC2	EXP Con	0	In	
PC3	EXP Con	0	In	
VDD		3.3		
VSSA		0		
VREF+		3.3		
VDDA		3.3		
PA0	Cooling Fan Enable	0	AF	TIM5_CH1
PA1	Hotend Heater Enable	0	AF	TIM5_CH2
PA2	Hotbed Extend - SQ Pin	0	AF	TIM5_CH3
PA3	E Step	0	Out	
VSS		0		
VDD		3.3		
PA4	E Dir	0	Out	
PA5	E Enable	3.3	Out	
PA6	Z Dir	0	Out	
PA7	Z Step	0	Out	
PC4	Z Enable	3.3	Out	
PC5	Y Dir	0	Out	
PB0	Y Step	0	Out	
PB1	Y Enable	3.3	Out	
PB2	X Dir	0	Out	
PE7	LCD Con	0.1	AF	FSMC_D4
PE8	LCD Con	0.1	AF	FSMC_D5
PE9	LCD Con	0.1	AF	FSMC_D6
PE10	LCD Con	0.1	AF	FSMC_D7
PE11	LCD Con	0.1	AF	FSMC_D8
PE12	LCD Con	0.2	AF	FSMC_D9
PE13	LCD Con	0.1	AF	FSMC_D10
PE14	LCD Con	0.1	AF	FSMC_D11
PE15	LCD Con	0.1	AF	FSMC_D12
PB10	X Step	0	Out	

PB11	X Enable	3.3	Out	
VCAP_1		1.3		
VDD		3.3		
PB12	X Endstop In	0.02	In	
PB13	Y Endstop In	0	In	
PB14	Z Endstop In	0	In	
PB15	Probe In	0	In	
PD8	LCD Con	1	AF	FSMC_D13
PD9	LCD Con	1	AF	FSMC_D14
PD10	LCD Con	1	AF	FSMC_D15
PD11	LCD Con	3.3	AF	FSMC_A16
PD12	LCD Con - Buzzer Enable	0	Out	
PD13	Servo signal	0.25	AF	TIM4_CH2
PD14	LCD Con	0	AF	FSMC_D0
PD15	LCD Con	0	AF	FSMC_D1
PC6	LED Light Enable	1.6	AF	TIM3_CH1
PC7	Status LED Enable	3.3	AF	TIM3_CH2
PC8	SD Card	3.3	In	
PC9	SD Card	3.3	In	
PA8	SD Card	3.3	Out	
PA9	JTAG Header	3.3	AF	USART1_TX
PA10	JTAG Header	3.3	AF	USART1_RX
PA11	USB	0	AF	OTG_FS_DM
PA12	USB	0	AF	OTG_FS_DP
PA13	SWDIO	3.3	AF	SWDIO
VCAP_2		1.27		
VSS		0		
VDD		3.3		
PA14	SWCLK	0	AF	SWCLK
PA15	EXP Con	0	Out	
PC10	SD Card	3.3	In	
PC11	SD Card	3.3	In	
PC12	SD Card	0	In	
PD0	LCD Con	0	AF	FSMC_D2
PD1	LCD Con	0	AF	FSMC_D3
PD2	SD Card	3.3	In	
PD3	LCD Con - backlight maybe	3.3	Out	
PD4	LCD Con	3.3	AF	FSMC_NOE
PD5	LCD Con	3.3	AF	FSMC_NWE
PD6	LCD Con - LCD something	3.3	Out	
PD7	LCD Con	3.3	AF	FSMC_NE1
PB3	SPI1-SCK W25Q128JV/Touch	0	AF	SPI1_SCK
PB4	SPI1-MISO W25Q128JV/Touch	3.3	AF	SPI1_MISO
PB5	SPI1-MOSI W25Q128JV/Touch	3.3	AF	SPI1_MOSI
PB6	LCD Con - Touch EN?	3.3	Out	
PB7	CS W25Q128JV	3.3	Out	
BOOT0		0		

PB8	I2C-SCL - FM24CL64B F-RAM	3.3	Out
PB9	I2C-SDA - FM24CL64B F-RAM	3.3	Out
PE0	LCD Con - touch something - int?	3.3	In
PE1	Material Sensor	0	In
VSS		0	
VDD		3.3	