BLACK STM32F4VET6
BOARD PINOUTS
PE2 = Pin0

life.augmented

Primary	Alternates
Port 5V tolerant	Not 5v tolerant
Dig/PWM	Dig/PWM
Special	Special
Analog	Analog
Serial	Serial
SPI	SPI (I2S)
I2C	I2C
GND	PWR

USB

JP2

5V		5v		
5V		5v		
3.3v		3.3v		
3.3v		3.3v		
GND		GND		
0	PE2	PE3	1	
2	PE4	PE5	3	
4	PE6	PC13	5	
6	PC0	PC1	7	A11
8	PC 2	PC3	9	A13 / MOSI2
MISO2				
VREF-		VREF+		VREF+
TX4	10	PA0	PA1	11	A1	RX4
TX2	12	PA2	PA3	13	A3	RX2
NSS1	14	PA4	PA5	15	A5, O2	SCK1
MISO1 / LED1	16	PA6	PA7	17	LED2	A7	MOSI1
	18	PC4	PC5	19	A15	
F_CS	20	PB0	PB1	21	A9	
	22	PE7	PE8	23		
	24	PE9	PE10	25		
	26	PE11	PE12	27		
	28	PE13	PE14	29		
	30	PE15	PB10	31	TX3	SCK2	SCL2
SDA2	RX3	32	PB11	PB12	33	CK3	NSS2	SMBA2
CTS3	34	PB13	PB14	35	CS_FLASH	RTS3	MISO2

LED1
LED2
RST K_UP

TFT

RST / SYS-WKUP

V2.3 RP12 May 2017

Primary	Alternates
Port 5V tolerant	Not 5v tolerant
Dig/PWM	Dig/PWM
Special	Special
Analog	Analog
Serial	Serial
SPI	SPI (I2S)
I2C	I2C
GND	PWR

SD

3.3v			3.3v
3.3v			3.3v
BT0	BT 0	BT 1	BT1 — Link to 3.3v/Gnd (default)
GND			GND
GND			GND
36	PE1	PE0	37
SDA1 / NSS2	38	PB9	PB8	39		SCL1
SDA1	RX1	40	PB7	PB6	41	TX1	SCL1
SDA3	MOSI3	MOSI1	42	PB5	PB3	43	JTDO	SCK1 / SCK3
CK2	44	PD7	PD6	45		RX2
TX2	46	PD5	PD4	47		RTS2
CTS2	48	PD3	PD2	49	SD_CMD	RX5
50	PD1	PD0	51
SD3	MOSI3	CK3, TX5	SD_CK	52	PC12	PC11	53	SD_D3	RX4, RX3	MISO3
SCK3	TX4, TX3	SD_D2	54	PC10	PA15	55	JTDI	NSS1 / NSS3
RTS1	USB_DP	56	PA12	PA11	57	CTS1
RX1	58	PA10	PA9	59	USB_DM	TX1	SMBA3
CK1	60	PA8	PC9	61	SD_D1	SDA3
CK6	SD_D0	62	PC8	PC7	63	RX6
TX6	64	PC6	PD15	65	
66	PD14	PD13	67
RTS3	68	PD12	PD11	69	CTS3
CK3	70	PD10	PD9	71	RX3
TX3	72	PD8	PB15	73	MOSI2

SCL3

TFT

J1 K0 K1

K0 K1

U5 J3