"Black" STM32F4VET6 Board Pinouts

Ver 2.0 -	- 10 April	2017 - RI	>		Row "U" - LEFT Connector (USB side) - Row "V"															
USB	12C	SPI	Serial	Analog	Timer PWM	Defined Fn / Special	Cube Black F407 v2	Port	5v Tolerant	Header Row		Port	Cube Black F407 v2	Defined Fn / Special	Timer PWM	Analog	Serial	SPI	12C	USB
										1		5v								
										2		5v								
	3.3v		3		3.3v															
	3.3v		4		3.3v															
	GND PE 2		5 6		GND PE 3															
							37 38	PE 2	0	7	0	PE 5	<u>0</u> 1		9.1					
-					9.2		39	PE 6	0	8	0	PC 13	2		9.1					
					3.2		39	FLO	U		U	F G 13								
				A10			40	PC 0	0	9	0	PC 1	3			A11				
		MISO2		A12			41	PC 2	0	10	0	PC 3	4			A13		MOSI2		
								VR-		11		VR+								
			TX4	A0	5.1		42	PA 0	0	12	0	PA 1	5		2.2	A1	RX4			
			TX2	A2	2.3		43	PA 2	0	13	0	PA 3	6		9.2, 2.4	A3	RX2			
				A4,												A5,				
		NSS1		01			44	PA 4	0	14	0	PA 5	7	LED2	2.1	02		SCK1		
		MISO1			3.1, 3.1, 1.B	LED1	45	PA 6	0	15	0	PA 7	8		8.1N, 3.2			MOSI1		
				A14			46	PC 4	0	16	0	PC 5	9			A15				
				A8	3.8, 8.2		47	PB 0	0	17	0	PB 1	10		3.4, 8.1N	A9				
					1.ET		48	PE 7	0	18	0	PE 8	11		1.1N					
					1.1		49	PE 9	0	19	0	PE 10	12		1.2N					
					1.2		50	PE 11	0	20	0	PE 12	13		1.3N					
					1.3 1.BK		51 52	PE 13 PE 15	0	21 22	0	PE 14 PB 10	14 15		2.3		TX3	SCK2	SCL2	
					I.DN		52	PE 15	0	22	U	70 10	15		2.3		173	SUN2	3CL2	
	SDA2		RX3		2.4		53	PB 11	0	23	0	PB 12	16		1.BK		СКЗ	NSS2	SMBA2	
			CTS											SPI3_C S_FLAS			RTS			
		SCK2	3		1.1N		54	PB 13	0	24	0	PB 14	17	Н	1.2N, 12.1		3	MISO2		

Row "S" - RIGHT Connector SD Card side Row "T"																			
USB	12C	SPI	Serial	Analog	Timer PWM	Special	Cube Black F407 v2	Port	5v Tolerant	Header Row		Port	Cube Black F407 v2	Special	Timer PWM	Analog Serial	IdS	IZC	USB
								3.3v		1		3.3v							
							3.3v BT 0		3	3.3v BT 1 Link to 3.3v/Gnd (default)									
		GND		4 GND															
								GND		5		GND							
							18	PE 1	0	6	0	PE 0	55		4.ET				
	SDA1	NSS2			4.4		19	PB 9	0	7	0	PB 8	56		4.3, 10.1			SCL1	
	SDA1		RX1		4.2		20	PB 7	0	8	0	PB 6	57		4.1	TX	1	SCL1	
	SDA3, SMBA1	MOSI1, MOSI3	CK2				21	PB 5	0	9	0	PB 3	58 59	JTDO	2.2	RX	SCK1, SCK3		
			OIKE					107	-	-10	Ŭ	100	33			RT			
			TX2				23	PD 5	0	11	0	PD 4	60			2			
			CTS 2				24	PD 3	0	12	0	PD 2	61	SDCMD	3.ET	RX	5		
							25	PD 1	0	13	0	PD 0	62						
	SD3	MOSI3	CK3, TX5			SDCK	26	PC 12	0	14	0	PC 11	63	SDD3		RX4			
		SCK3	TX4, TX3			SDD2	27	PC 10	0	15	o	DA 45	64	JTDI	2.1ET		NSS1		
		SUNS	RTS			3002	21	PC 10	٥	15	U	PA 15	04	וטונ	2.151	CT			
FS DP			1				28	PA 12	0	16	0	PA 11	65		1.4	1			FS DM
			RX1		1.3		29	PA 10	0	17	0	PA 9	66	???	1.2	TX	1	SMBA3	
FS SOF	SCL3		CK1		1.1		30	PA 8	0	18	0	PC 9	67	SDD1	3.4			SDA3	
			CK6		8.3	SDD0	31	PC 8	0	19	0	PC 7	68		3.2	RX	6		
			TX6	8	1.1, 3.1		32	PC 6	0	20	0	PD 15	69		4.4				
			RTS		4.3		33	PD 14	0	21	0	PD 13	70		4.2	CT	3		
			3		4.1		34	PD 12	0	22	o	PD 11	71			3	5		
-			CK3		7.1		35	PD 10	0	23	0	PD 9	72			RX	3		
TX3							36	PD8	0	24	0	PB 15	73	1.3	N, 8.3N, 1		MOSI2		

74 Total GPIOs

5v tolerant

0 5v tolerant except in ANALOG mode LEDs D2 LED PA6 D3 LED PA7

Mapped to Digital Pins (v2)
D8

D45

Switches RST NRST - IC Pin 14

WK_UP PA0 PULL DOWN D42 K0 K1 PE3 PE4 PULL UP PULL UP D38 D0