STM32F407 VET6 ATARI Keyboard Adapter

510R R2 — D2 LED — NUM_LK — PA3
510R R3 — D3 LED — SCR_LK — PA4
510R R4 — D4 LED — COMPOSE — PA5
510R R5 — D5 LED — CAPSLK — PA6
510R R6 — D6 LED — KANA — PA7
+3V3

Conn_02x16_Odd_Even — J1
GND GND
+3V3 GND

+5V — 330 — R1 — D1 LED — GND

DEBUG UART
1 GND – 2 RX – 3 TX
PA10-RXD1 2 / PA9-TXD1 3 — J6 Conn_01x03

Conn_02x24_Odd_Even — J3

PB15 48	47 PD8
PD9 46	45 PD10
PD11 44	43 PD12
PD13 42	41 PD14
PD15 40	39 PC6
PC7 38	37 PC8
PC9 36	35 PA8
PA9-TXD1 34	33 PA10-RXD1
PA11-USB_DM 32	31 PA12-USB_DP
PA15-TDI_SWD 30	29 PC10
PC11 28	27 PC12
PD0 26	25 PD1
PD2 24	23 PD3
PD4 22	21 PD5
PD6 20	19 PD7
PB3-TDO_SWD 18	17 PB5
PB6 16	15 PB7
PB8 14	13 PB9
PE0 12	11 PE1
10	9
GND 8	7 GND
PB2-BOOT1 6	5 BOOT0
4	3
2	1

+3V3 +3V3

Conn_01x32 — J5

+5V	1
	2
	3
	4
IN_6	5
OUT_3	6
OUT_5	7
OUT_7	8
IN_2	9
IN_7	10
IN_5	11
IN_1	12
OUT_6	13
OUT_1	14
OUT_4	15
OUT_2	16
IN_3	17
IN_0	18
OUT_0	19
IN_4	20
RSC	21
START	22
SELECT	23
OPTION	24
RESET	25
LSC	26
OUT_FN	27
	28
	29
	30
	31
	32

Conn_02x17_Counter_Clockwise — J4

OUT_0 18	17 IN_0
IN_4 19	16 IN_3
RSC 20	15 OUT_2
START 21	14 OUT_4
SELECT 22	13 OUT_1
OPTION 23	12 OUT_6
RESET 24	11 IN_1
LSC 25	10 IN_5
OUT_FN 26	9 IN_7
27	8 IN_2
28	7 OUT_7
29	6 OUT_5
30	5 OUT_3
31	4 IN_6
32	3
33	2 LED
34	1

+5V

Conn_02x24_Odd_Even — J2

PB14 48	47 PB13
PB12 46	45 PB11
PB10 44	43 PE15
PE14 42	41 PE13
PE12 40	39 PE11
PE10 38	37 PE9
PE8 36	35 PE7
PB1 34	33 PB0
PC5 32	31 PC4
PA7 30	29 PA6
PA5 28	27 PA4
PA3 26	25 PA2
PA1 24	23 PA0-WK_UP
VREF+ 22	21 VREF-
PC3 20	19 PC2
PC1 18	17 PC0
PC13 16	15 PE6
PE5 14	13 PE4
PE3 12	11 PE2
10	9
GND 8	7 GND
+3V3 6	5 +3V3
4	3
2	1

+5V +5V

LOGO1 LOGO

PWR_FLAG PWR_FLAG PWR_FLAG
+5V +3V3 GND

MATRIX RxC 13x9

R0-R12
IN_4 — PE5
IN_6 — PE6
IN_2 — PE7
IN_7 — PE8
IN_5 — PE9
IN_1 — PE10
IN_0 — PE11
IN_3 — PE12
RSC — PE13
START — PE14
SELECT — PE15
OPTION — PD0
RESET — PD1

C0-C8
OUT_1 — PC0
OUT_4 — PC1
OUT_6 — PC2
OUT_2 — PC3
OUT_7 — PC4
OUT_0 — PC5
OUT_3 — PC6
OUT_5 — PC7
OUT_FN — PD8

H1 MountingHole   H2 MountingHole   H3 MountingHole   H4 MountingHole

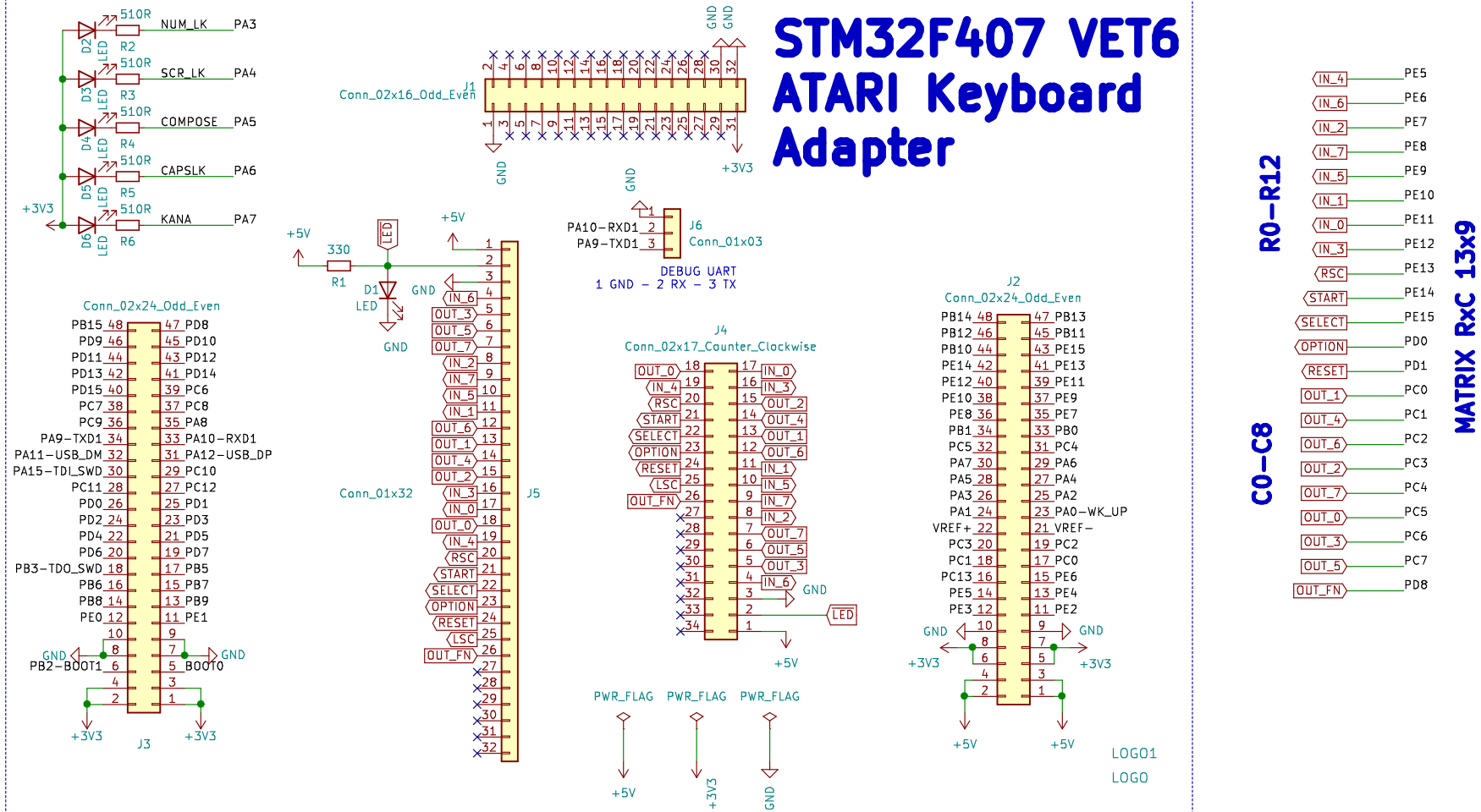**In the keyboard PCB, the jumper for ATARI/USB must be selected for USB HID. OUT_FN (26) will be used for START, SELECT, OPTION, and RESET keys.**