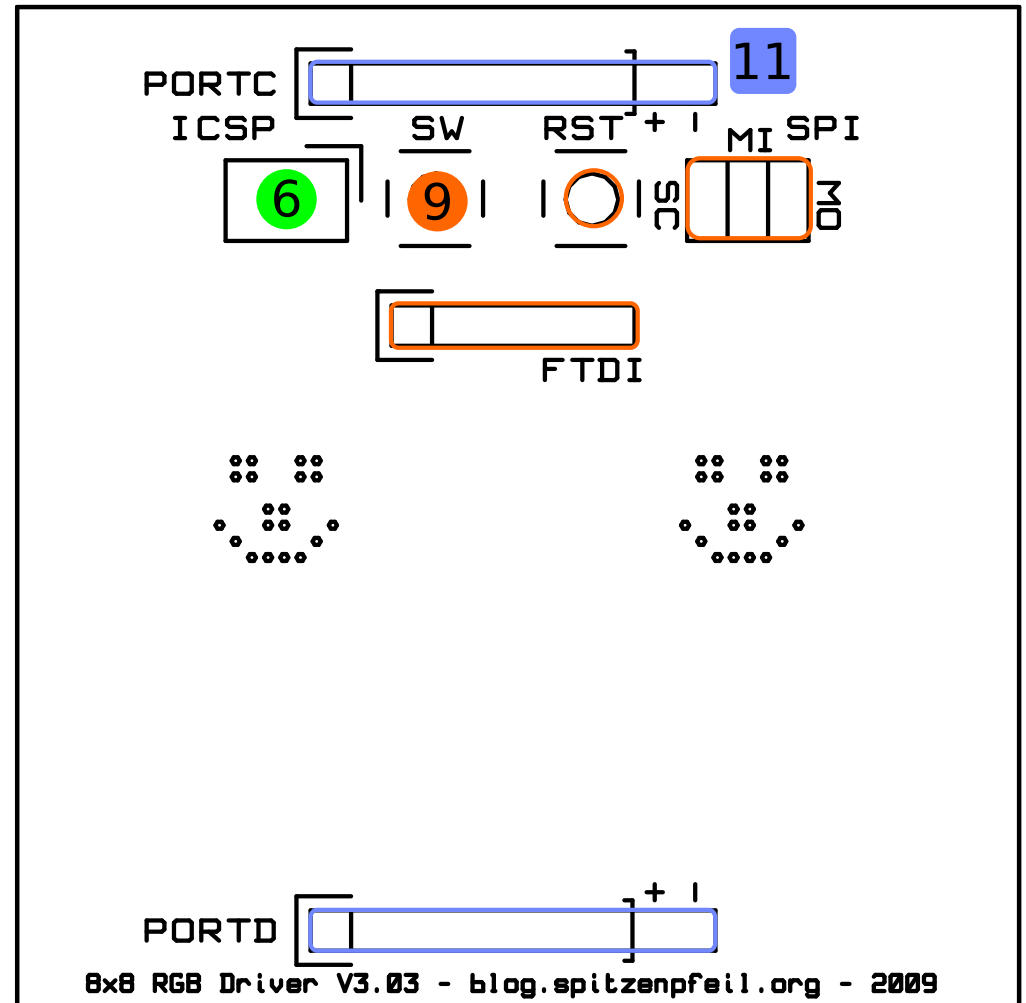
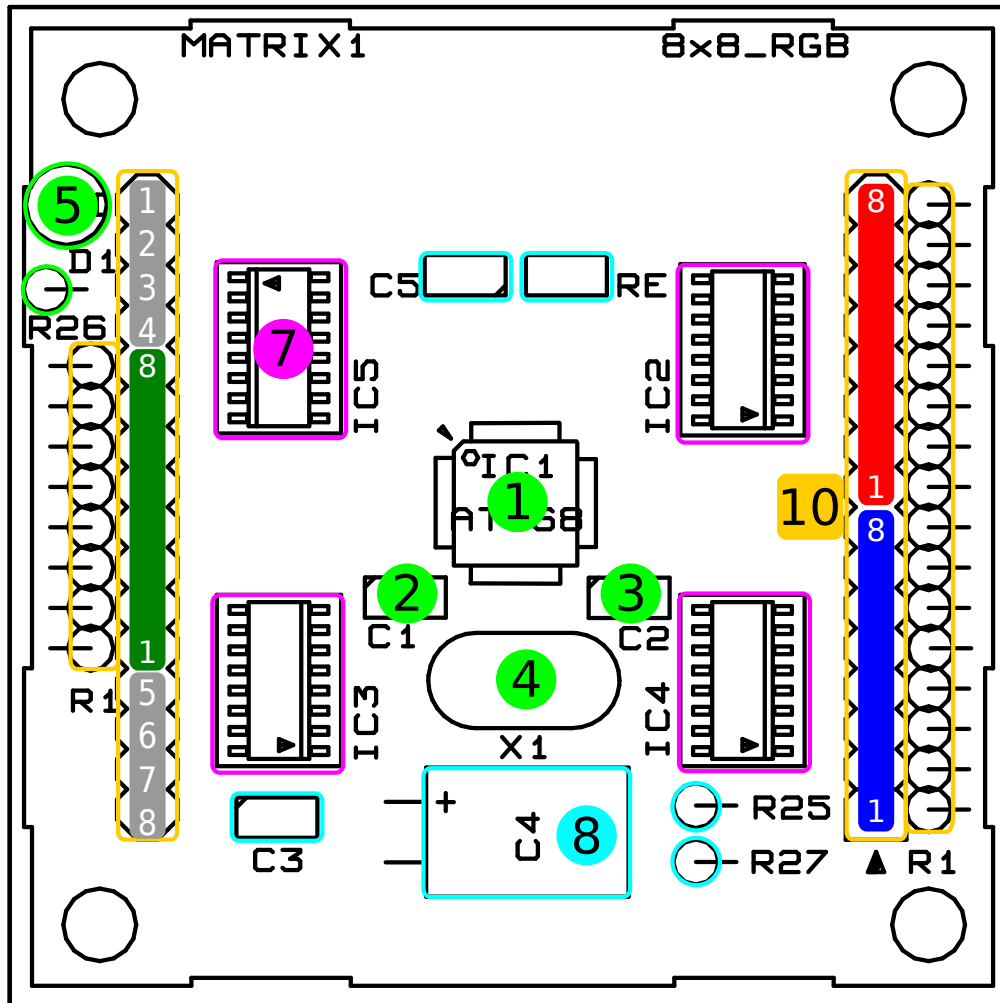
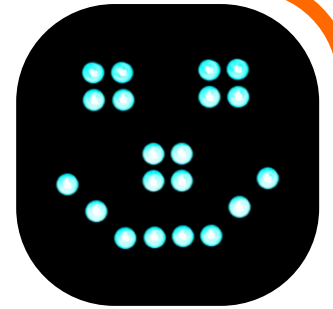


# Soldering by numbers !



disable auto reset  
(USB/Serial adapter must provide DTR !)

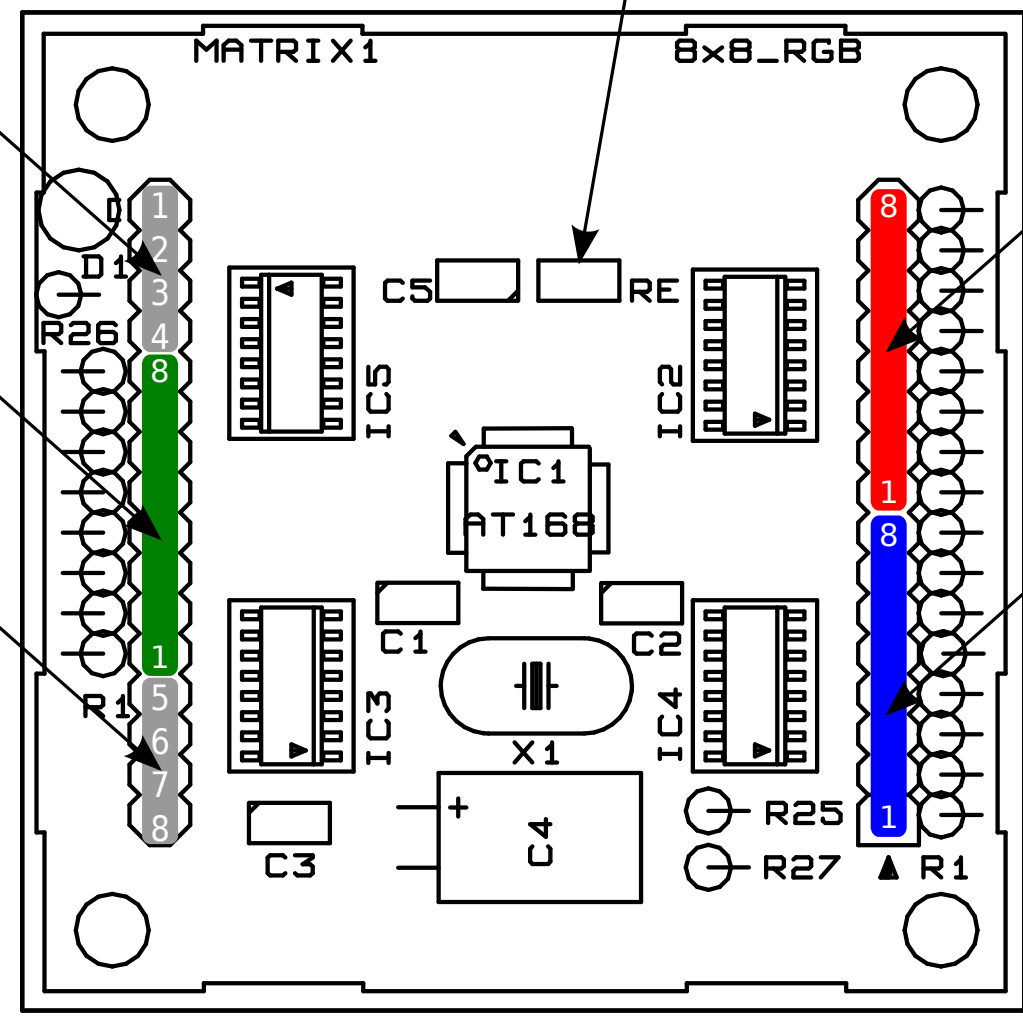
LED Matrix  
Connectors: ROWS  
(**anodes** / cathodes)

LED Matrix  
Connectors: **COLUMNS**  
(anodes / **cathodes**)

LED Matrix  
Connectors: ROWS  
(**anodes** / cathodes)

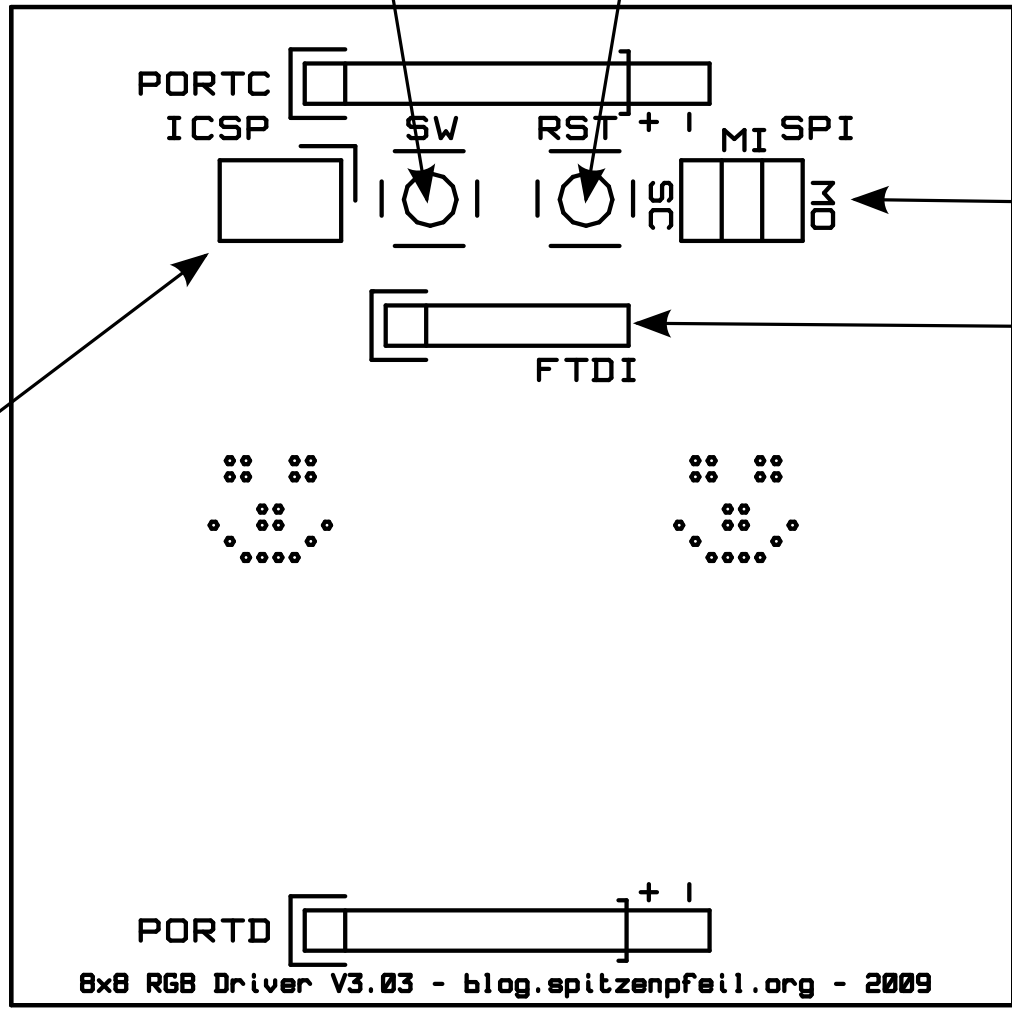
LED Matrix  
Connectors: **COLUMNS**  
(anodes / **cathodes**)

LED Matrix  
Connectors: **COLUMNS**  
(anodes / **cathodes**)



optional / **default**

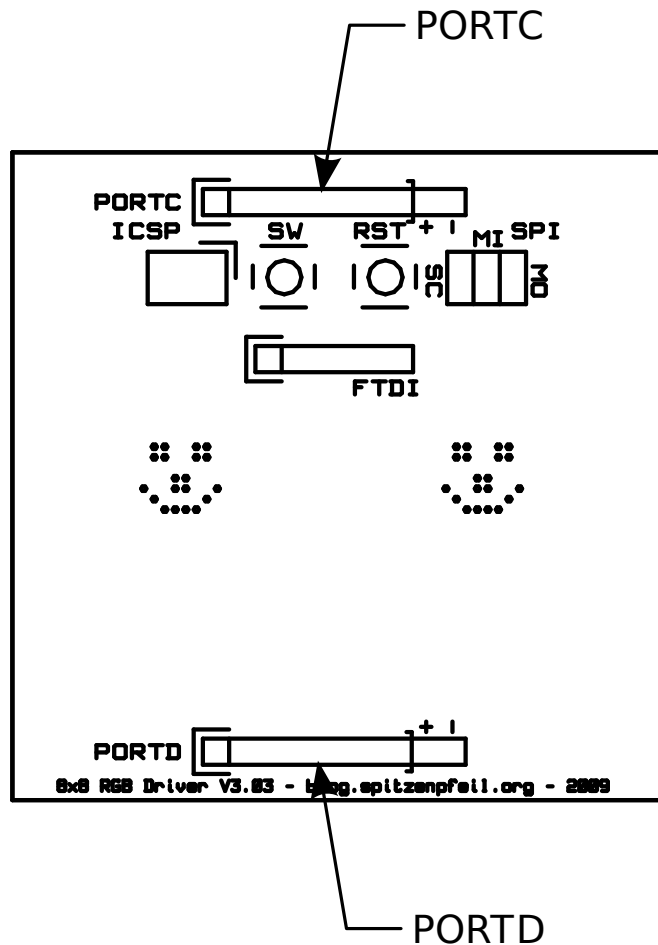
BUTTON RESET



release SPI lines  
(if ICSP is used)

FTDI USB/Serial  
(uses bootloader)

ICSP  
programming header  
(remove SPI jumpers)



"PORTC" :

PIN	NAME	FUNCTION	ARDUINO PIN	ARDUINO PIN
1	PC0	ADC0	analog IN 0	digital IN/OUT 14
2	PC1	ADC1	analog IN 1	digital IN/OUT 15
3	PC2	ADC2	analog IN 2	digital IN/OUT 16
4	PC3	ADC3	analog IN 3	digital IN/OUT 17
5	PC4	ADC4, SDA	analog IN 4	digital IN/OUT 18
6	PC5	ADC5, SCL	analog IN 5	digital IN/OUT 19
7	ADC6	ADC6	analog IN 6	(only on SMD boards)
8	ADC7	ADC6	analog IN 7	(only on SMD boards)
9	+	5V	-	-
10	-	GND	-	-

"PORTD" :

PIN	NAME	FUNCTION	ARDUINO PIN	ARDUINO PIN
1	PD0	RXD	RXD	digital IN/OUT 0
2	PD1	TXD	TXD	digital IN/OUT 1
3	PD2	INT0	-	digital IN/OUT 2
4	PD3	INT1, OC2B	PWM	digital IN/OUT 3
5	PD4	XCK, T0	-	digital IN/OUT 4
6	PD5	T1, OC0B	PWM	digital IN/OUT 5
7	PD6	AIN0, OC0A	PWM	digital IN/OUT 6
8	PD7	AIN1	-	digital IN/OUT 7
9	+	5V	-	-
10	-	GND	-	-

- The button "SW" is connected to PB0 / digital IN/OUT 8
- The LED is connected to PD4 / digital IN/OUT 4