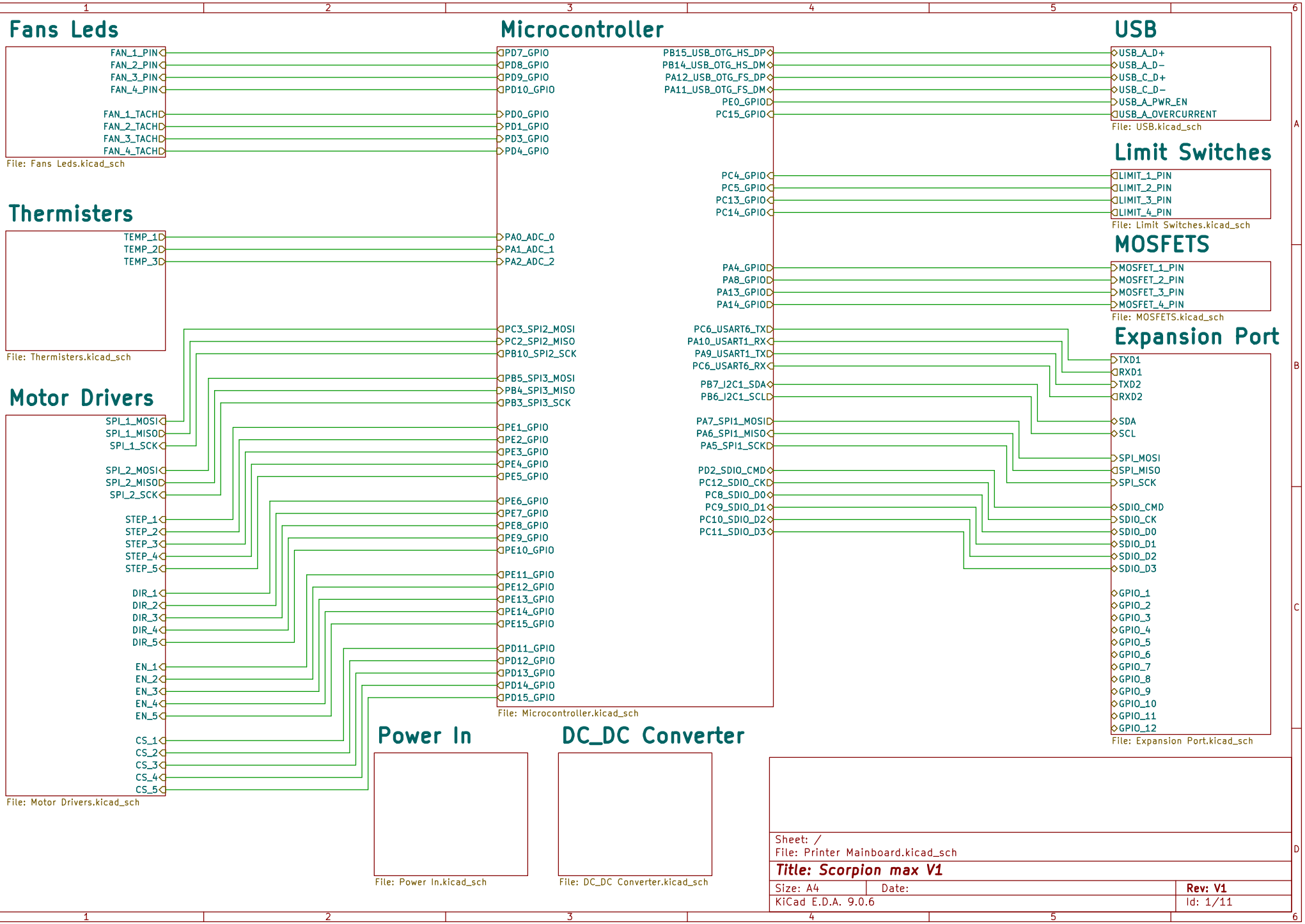
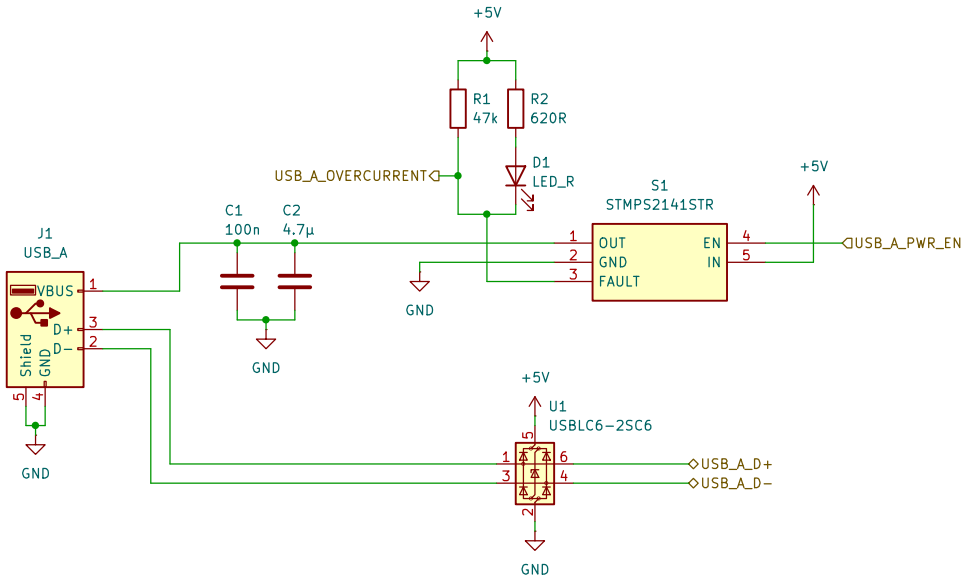
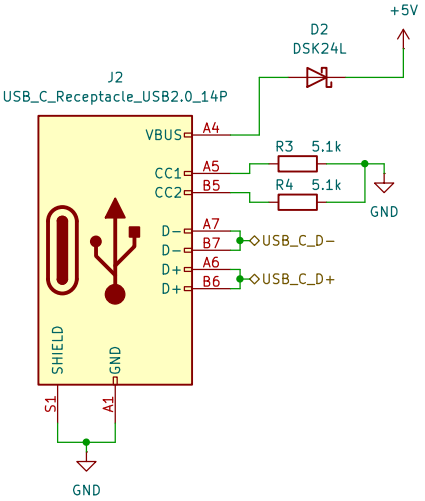
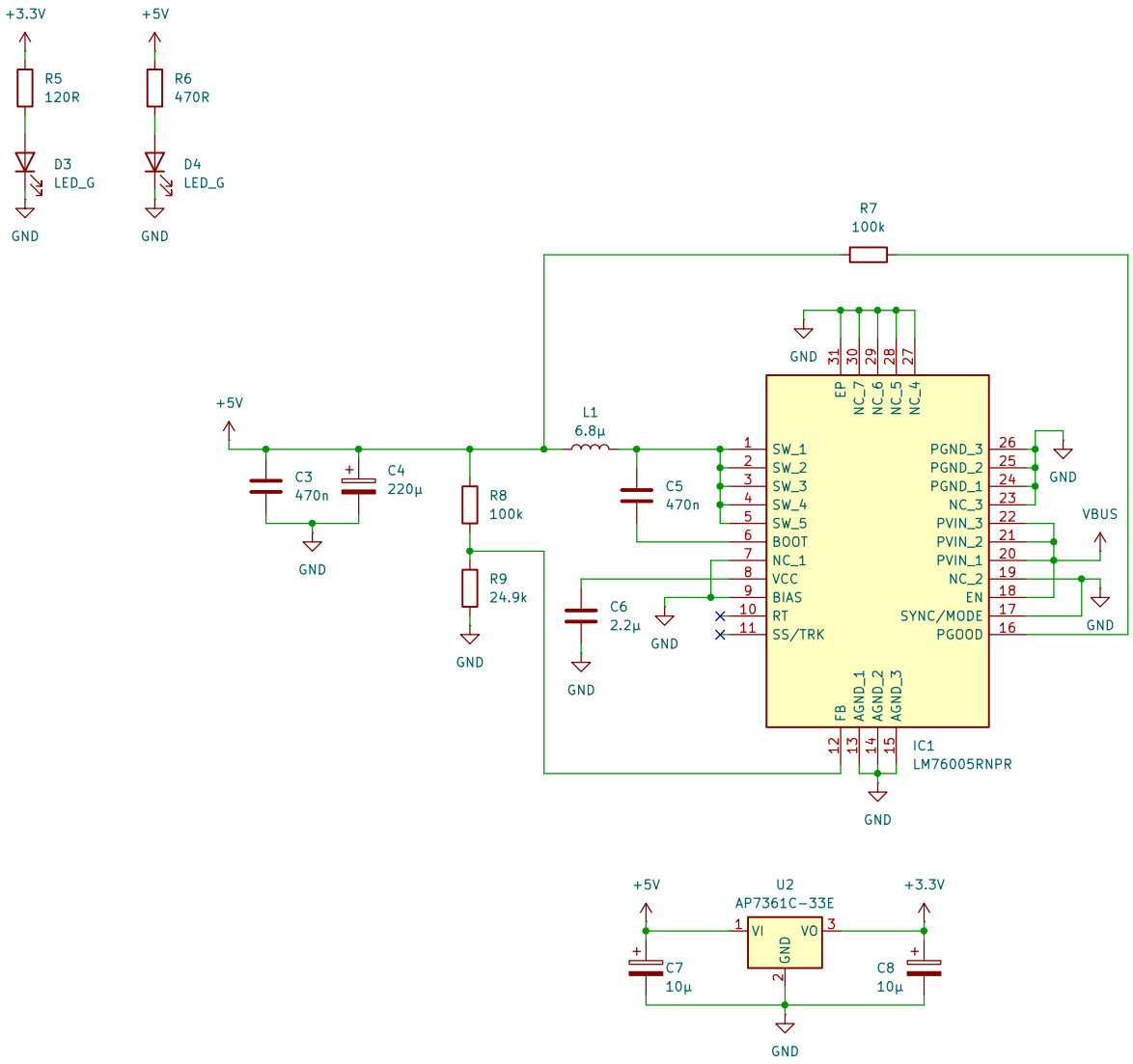

Fans Leds
FAN_1_PIN
FAN_2_PIN
FAN_3_PIN
FAN_4_PIN
FAN_1_TACH
FAN_2_TACH
FAN_3_TACH
FAN_4_TACH
File: Fans Leds.kicad_sch
Thermisters
TEMP_1
TEMP_2
TEMP_3
File: Thermisters.kicad_sch
Motor Drivers
SPI_1_MOSI
SPI_1_MISO
SPI_1_SCK
SPI_2_MOSI
SPI_2_MISO
SPI_2_SCK
STEP_1
STEP_2
STEP_3
STEP_4
STEP_5
DIR_1
DIR_2
DIR_3
DIR_4
DIR_5
EN_1
EN_2
EN_3
EN_4
EN_5
CS_1
CS_2
CS_3
CS_4
CS_5
File: Motor Drivers.kicad_sch
Microcontroller
PD7_GPIO
PD8_GPIO
PD9_GPIO
PD10_GPIO
PD0_GPIO
PD1_GPIO
PD3_GPIO
PD4_GPIO
PA0_ADC_0
PA1_ADC_1
PA2_ADC_2
PC3_SPI2_MOSI
PC2_SPI2_MISO
PB10_SPI2_SCK
PB5_SPI3_MOSI
PB4_SPI3_MISO
PB3_SPI3_SCK
PE1_GPIO
PE2_GPIO
PE3_GPIO
PE4_GPIO
PE5_GPIO
PE6_GPIO
PE7_GPIO
PE8_GPIO
PE9_GPIO
PE10_GPIO
PE11_GPIO
PE12_GPIO
PE13_GPIO
PE14_GPIO
PE15_GPIO
PD11_GPIO
PD12_GPIO
PD13_GPIO
PD14_GPIO
PD15_GPIO
PB15_USB_OTG_HS_DP
PB14_USB_OTG_HS_DM
PA12_USB_OTG_FS_DP
PA11_USB_OTG_FS_DM
PE0_GPIO
PC15_GPIO
PC4_GPIO
PC5_GPIO
PC13_GPIO
PC14_GPIO
PA4_GPIO
PA8_GPIO
PA13_GPIO
PA14_GPIO
PC6_USART6_TX
PA10_USART1_RX
PA9_USART1_TX
PC6_USART6_RX
PB7_I2C1_SDA
PB6_I2C1_SCL
PA7_SPI1_MOSI
PA6_SPI1_MISO
PA5_SPI1_SCK
PD2_SDIO_CMD
PC12_SDIO_CK
PC8_SDIO_D0
PC9_SDIO_D1
PC10_SDIO_D2
PC11_SDIO_D3
File: Microcontroller.kicad_sch
USB
USB_A_D+
USB_A_D-
USB_C_D+
USB_C_D-
USB_A_PWR_EN
USB_A_OVERCURRENT
File: USB.kicad_sch
Limit Switches
LIMIT_1_PIN
LIMIT_2_PIN
LIMIT_3_PIN
LIMIT_4_PIN
File: Limit Switches.kicad_sch
MOSFETS
MOSFET_1_PIN
MOSFET_2_PIN
MOSFET_3_PIN
MOSFET_4_PIN
File: MOSFETS.kicad_sch
Expansion Port
TXD1
RXD1
TXD2
RXD2
SDA
SCL
SPI_MOSI
SPI_MISO
SPI_SCK
SDIO_CMD
SDIO_CK
SDIO_D0
SDIO_D1
SDIO_D2
SDIO_D3
GPIO_1
GPIO_2
GPIO_3
GPIO_4
GPIO_5
GPIO_6
GPIO_7
GPIO_8
GPIO_9
GPIO_10
GPIO_11
GPIO_12
File: Expansion Port.kicad_sch
Power In
File: Power In.kicad_sch
DC_DC Converter
File: DC_DC Converter.kicad_sch
Sheet: /
File: Printer Mainboard.kicad_sch
Title: Scorpion max V1
Size: A4
Date:
Rev: V1
KiCad E.D.A. 9.0.6
Id: 1/11

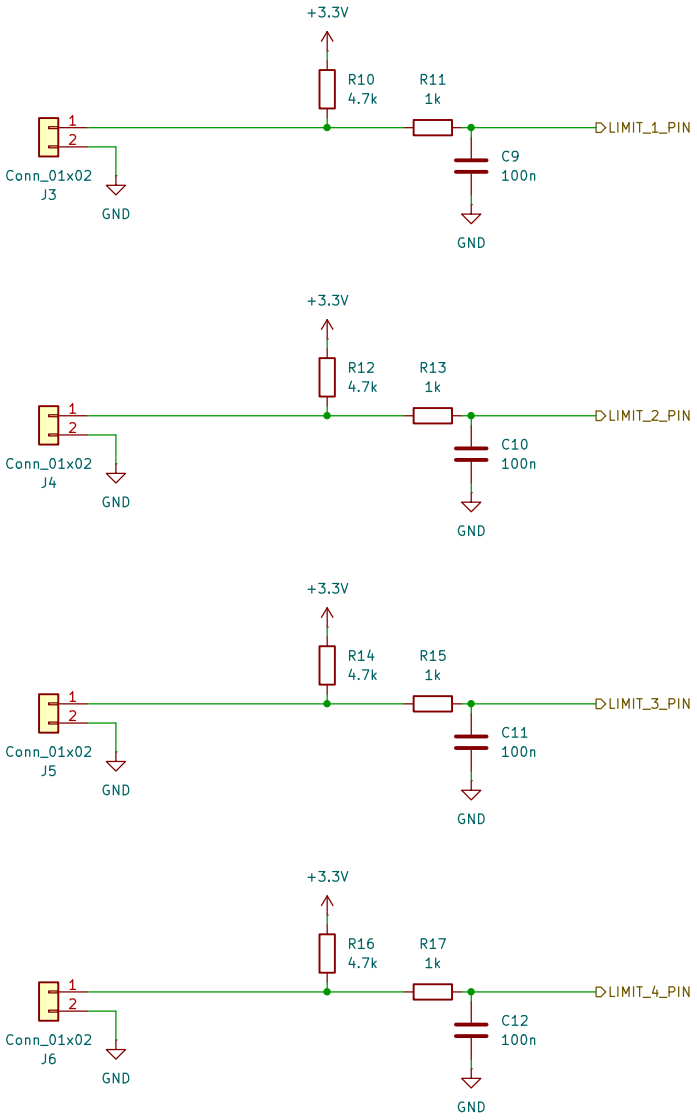




Sheet: /USB/		
File: USB.kicad_sch		
Title: Scorpion max V1		
Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 2/11



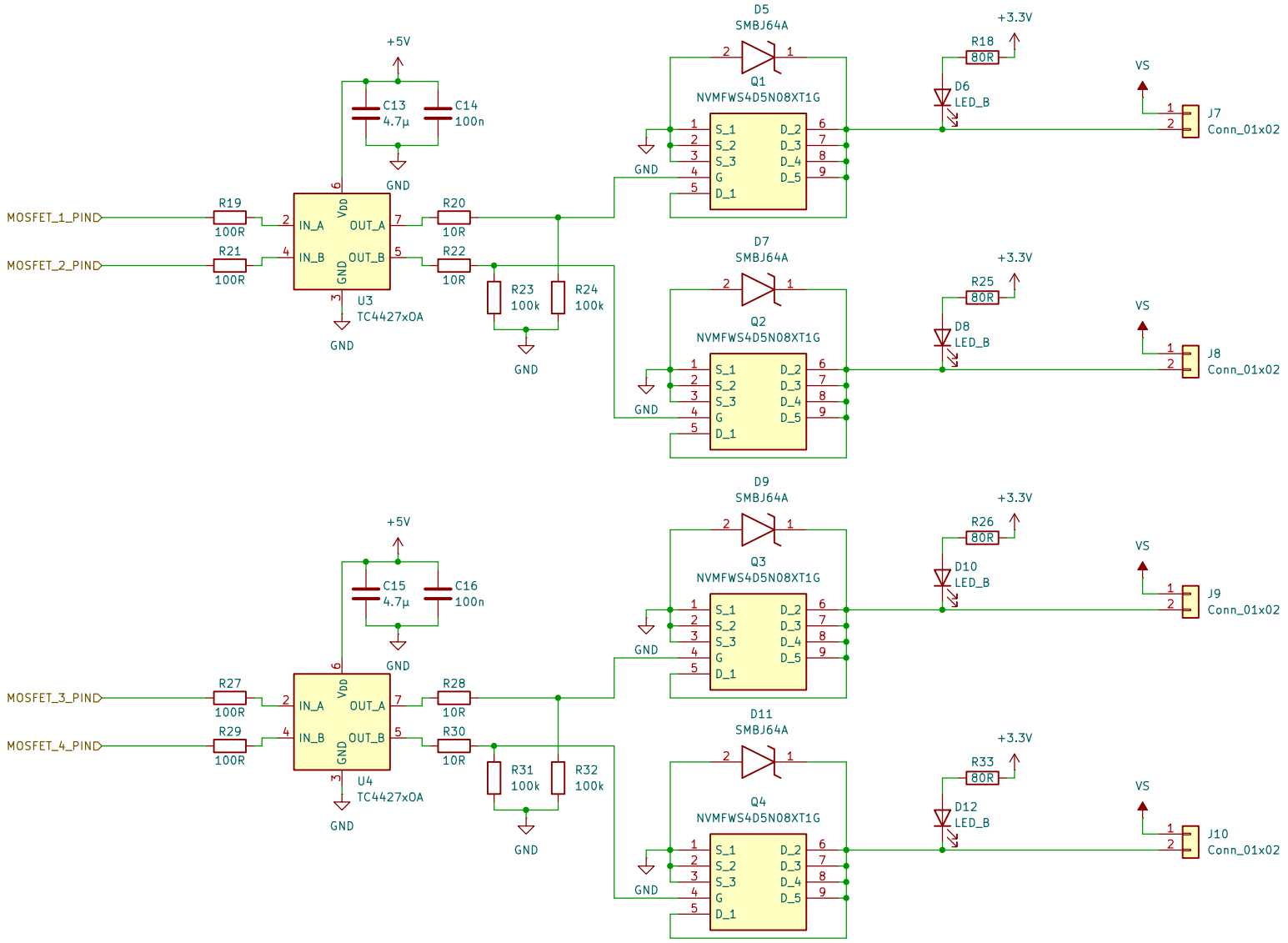
Sheet: /DC_DC Converter/		
File: DC_DC Converter.kicad_sch		
Title: Scorpion max V1		
Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 3/11



Sheet: /Limit Switches/
File: Limit Switches.kicad_sch

Title: Scorpion max V1

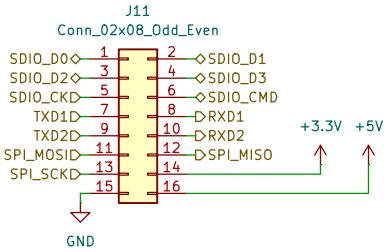
Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 4/11

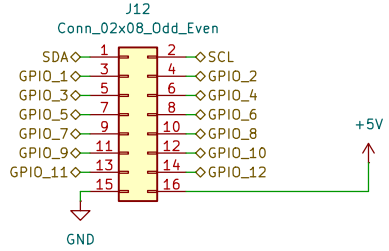


Sheet: /MOSFETS/
File: MOSFETS.kicad_sch

Title: Scorpion max V1

Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 5/11

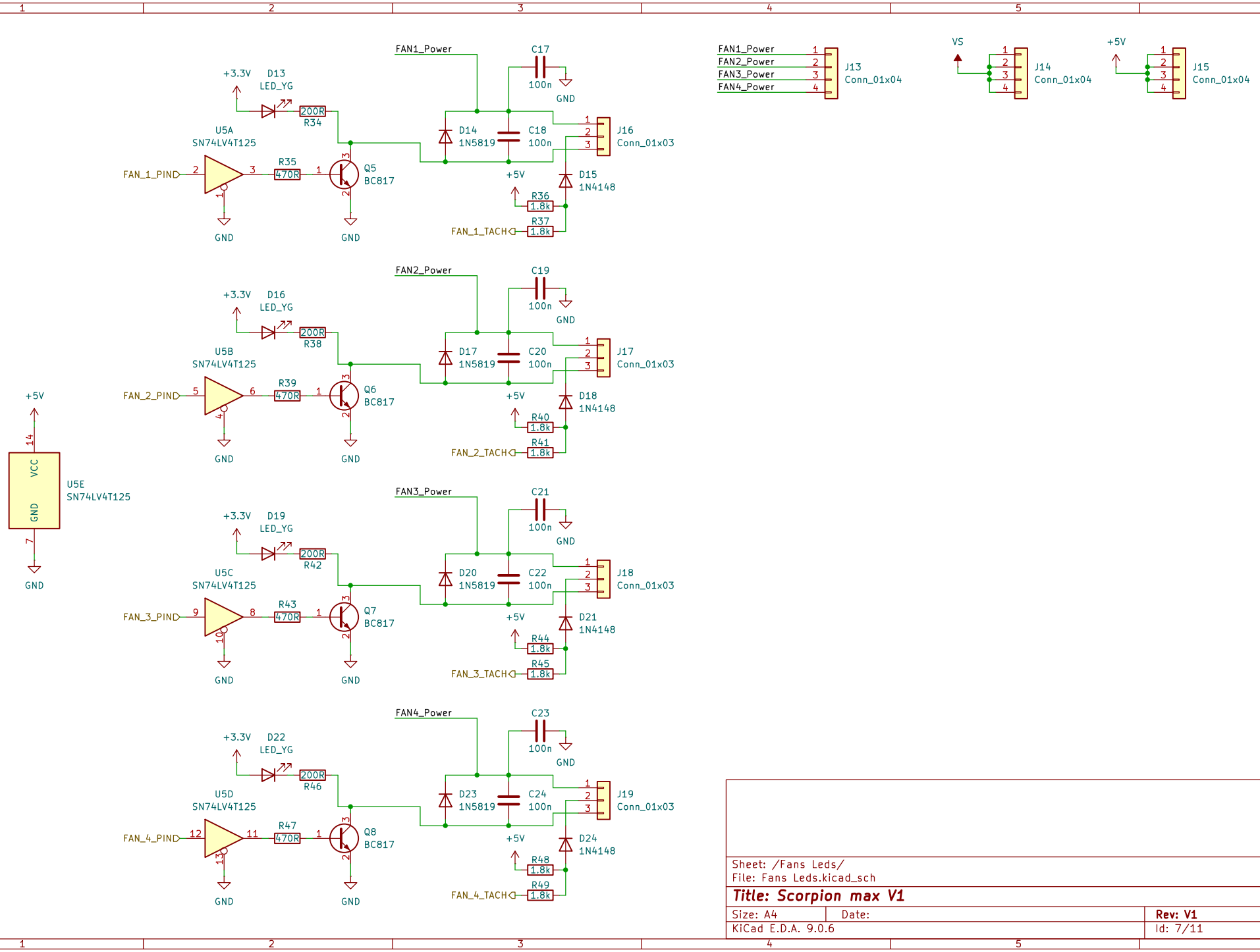




Sheet: /Expansion Port/
File: Expansion Port.kicad_sch

Title: Scorpion max V1

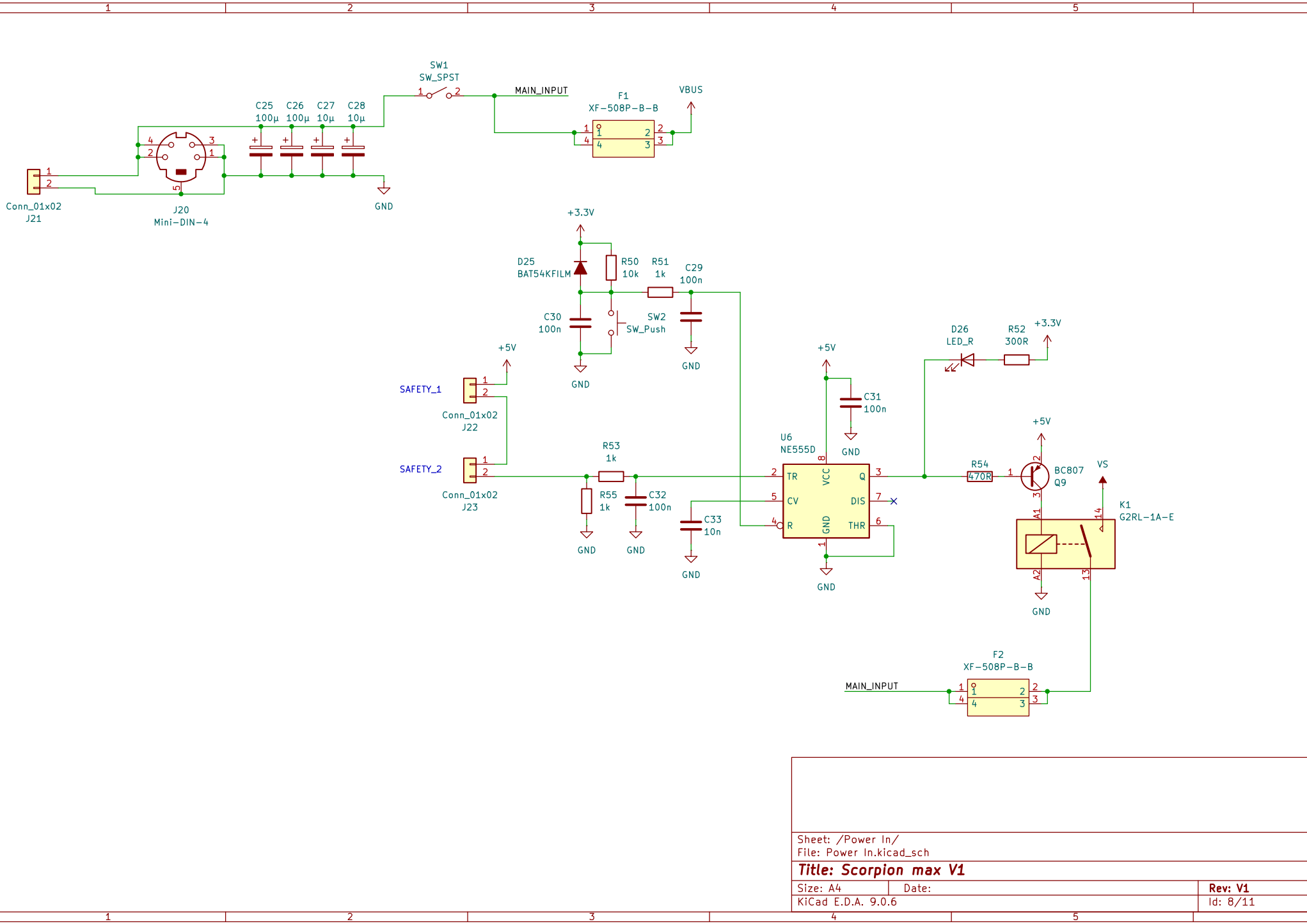
Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 6/11



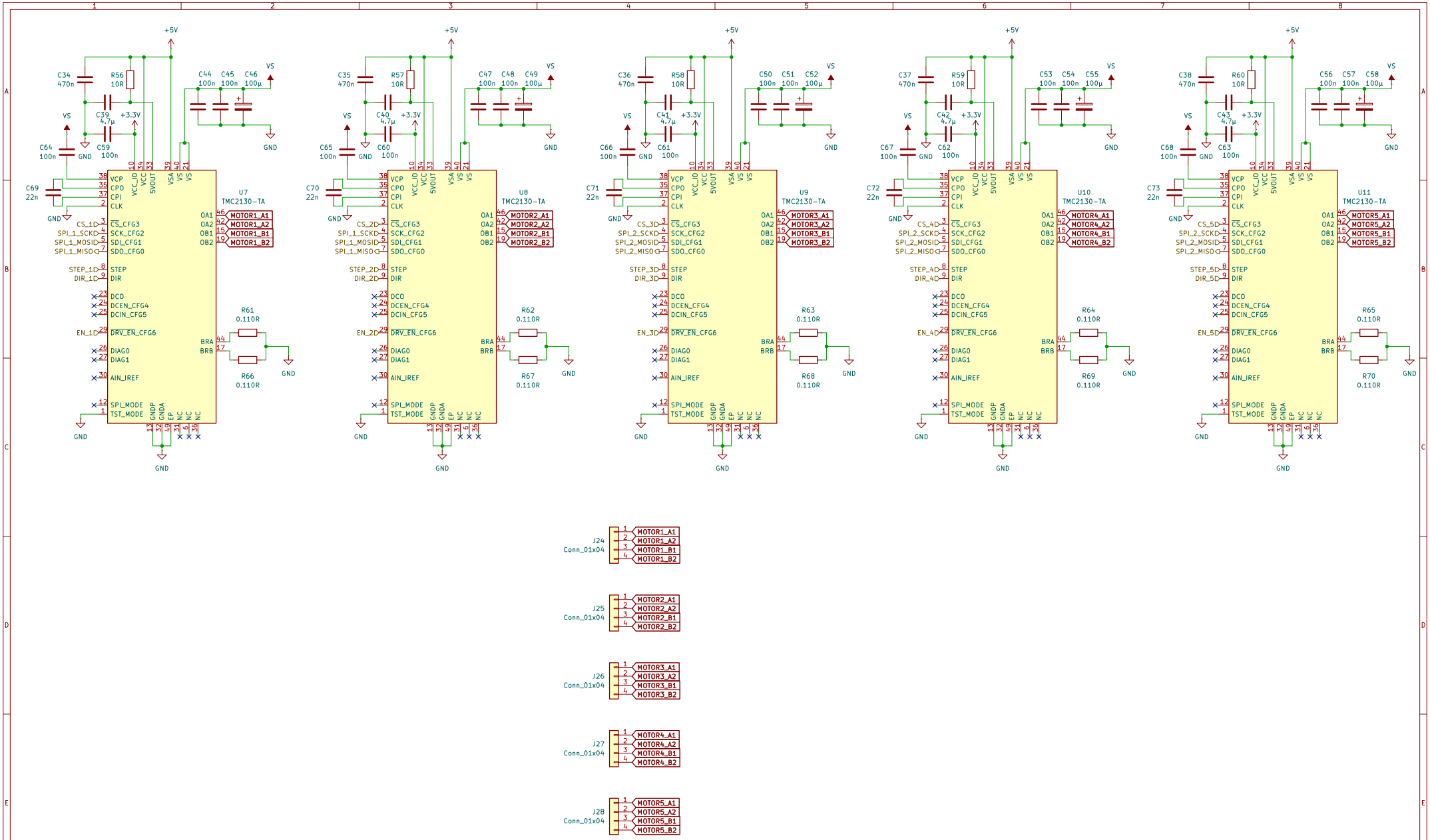
Sheet: /Fans Leds/
File: Fans Leds.kicad_sch

Title: Scorpion max V1

Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 7/11



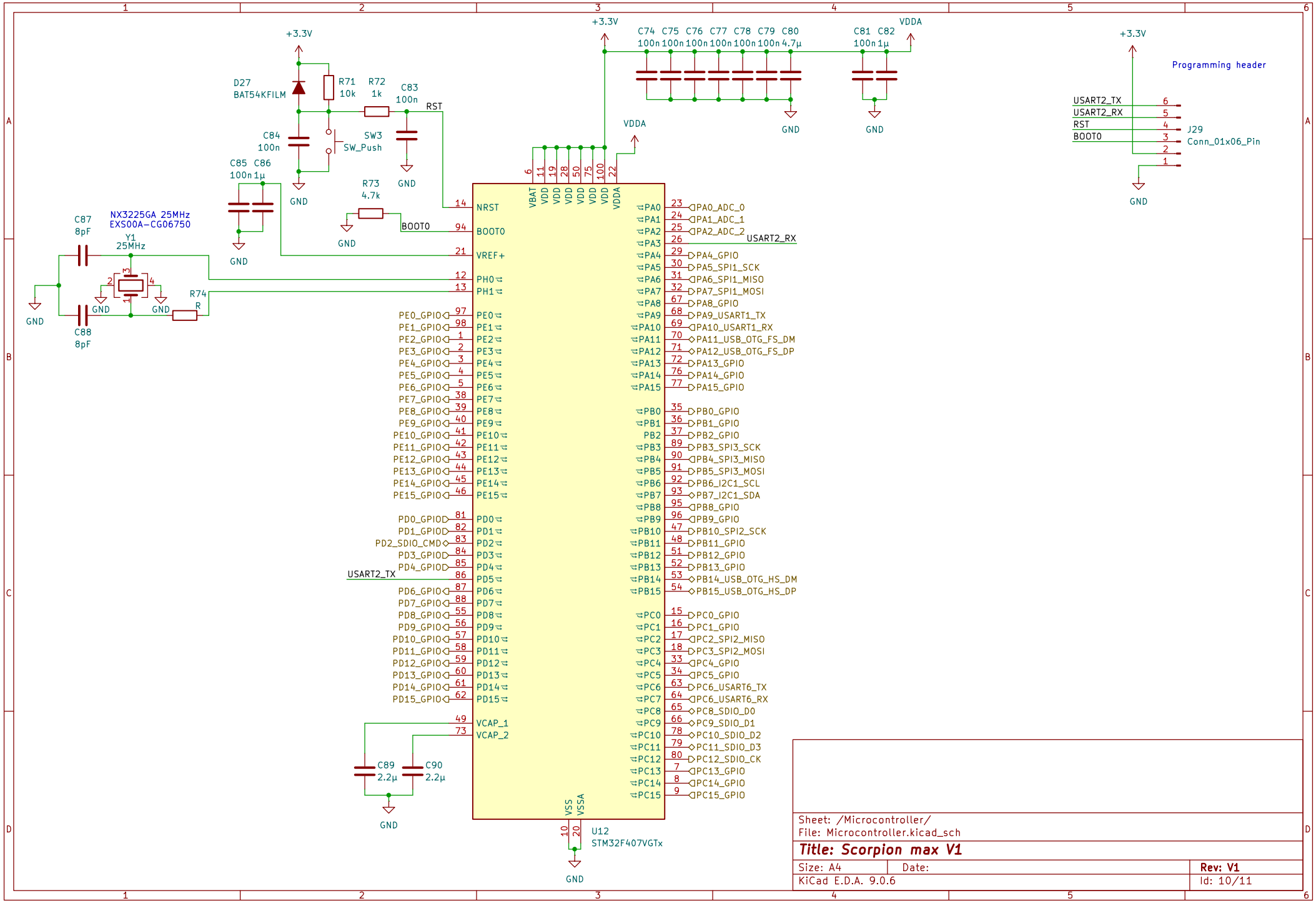
Sheet: /Power In/		
File: Power In.kicad_sch		
Title: Scorpion max V1		
Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 8/11

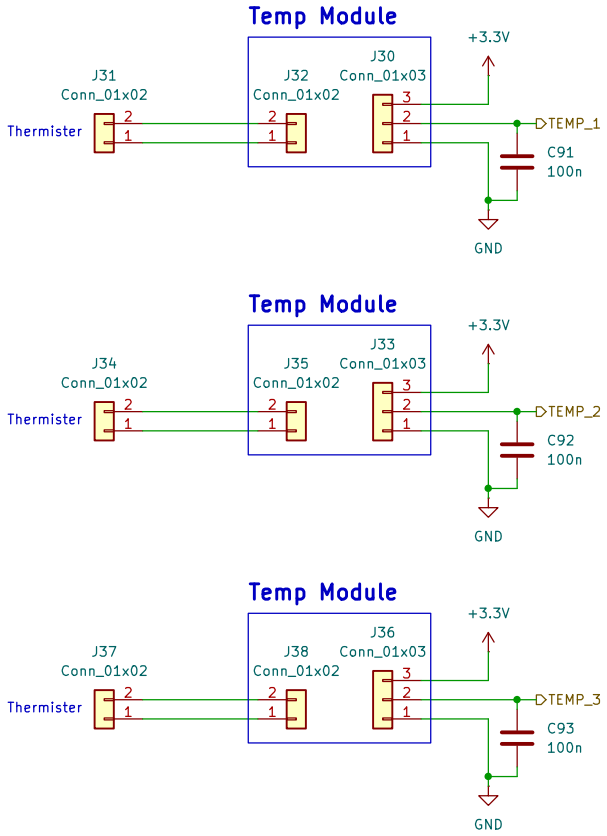


Sheet: /Motor Drivers/
File: Motor Drivers.kicad_sch

Title: Scorpion max V1

Size: A3	Date:	Rev: V1
KiCad E.D.A. 9.0.6		Id: 9/11


+3.3V
D27
BAT54KFILM
R71
10k
R72
1k
C83
100n
RST
C84
100n
SW3
SW_Push
GND
C85
100n
C86
1µ
R73
4.7k
BOOT0
C87
8pF
NX3225GA 25MHz
EXS00A-CG06750
Y1
25MHz
C88
8pF
R74
R
C74 C75 C76 C77 C78 C79 C80
100n 100n 100n 100n 100n 100n 4.7µ
C81 C82
100n 1µ
VDDA
Programming header
USART2_TX
USART2_RX
RST
BOOT0
J29
Conn_01x06_Pin
NRST
VREF+
PH0
PH1
VBAT
VDD
VDDA
PA0 PA1 PA2 PA3 PA4 PA5 PA6 PA7 PA8 PA9 PA10 PA11 PA12 PA13 PA14 PA15
PB0 PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15
PC0 PC1 PC2 PC3 PC4 PC5 PC6 PC7 PC8 PC9 PC10 PC11 PC12 PC13 PC14 PC15
PE0 PE1 PE2 PE3 PE4 PE5 PE6 PE7 PE8 PE9 PE10 PE11 PE12 PE13 PE14 PE15
PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15
VCAP_1
VCAP_2
C89
2.2µ
C90
2.2µ
VSS
VSSA
U12
STM32F407VGTx
Sheet: /Microcontroller/
File: Microcontroller.kicad_sch
Title: Scorpion max V1
Size: A4
Date:
Rev: V1
KiCad E.D.A. 9.0.6
Id: 10/11



Sheet: /Thermisters/
File: Thermisters.kicad_sch

Title: Scorpion max V1

Size: A4	Date:	**Rev: V1**
KiCad E.D.A. 9.0.6		Id: 11/11