LED Module

PWM9_3V PWM8_3V PWM7_3V PWM6_3V +B VBoost 5Vb 5Va
R2 47k R3 47k R4 47k R5 47k R6 180kx2 R9 680k x 2 R10 180k R11 47k R12 47k
D2 UDIM2_2 D3 UDIM2_1 D4 UDIM2_2 D5 UDIM1_1 D6 +B D7 VBoost D8 5Vb 5Va
GNDREF

AO3401 Q1
STM32_3V STM32_VCC_3V
R25 47k
Q2 BSS138
R27 1k 5Va
R26 44k
GNDREF

R24 4.7k D13 Uart4_Rx_3V Uart4_Rx
R46 4.7k R47 4.7k D1 Uart5_Rx_3V Uart5_Rx Uart5_Tx_3V
R48 4.7k R49 4.7k D10 Uart7_Rx_3V Uart7_Rx Uart7_Tx_3V
R50 4.7k D11 USART1_Rx_3V(LIN) USART1_Rx_LIN

H750_Left_Out J1 H750_Left_In J2
STM32_VCC_3V GNDREF
USART1_Tx_3V FDCAN2_Rx_3V GPIO7_3V PWM12_3V PWM10_3V PWM8_3V Uart7_Tx_3V SPI3_MOSI_3V GPIO5_3V GPIO1_3V ADC2_3V ADC1_3V GPIO9_3V PWM6_3V PWM4_3V PWM2_3V
USART1_Rx_3V(LIN) FDCAN2_Tx_3V GPIO8_3V PWM13_3V PWM11_3V PWM9_3V PWM7_3V Uart7_Rx_3V GPIO10_3V SPI1_MOSI_3V SPI1_SCK_3V GPIO0_3V SPI2_MOSI_3V PWM5_3V PWM3_3V

H750_Right_In J3 H750_Right_Out J4
STM32_VCC_5V STM32_VCC_3V
GPIO_+B GPIO_IG1 GPIO11_3V GPIO13_3V GPIO2_3V GPIO3_3V SPI3_SCK_3V Uart5_Tx_3V FDCAN1_Tx_3V USART2_Tx_3V GPIO_VBU I2C1_SCL GPIO6_3V PWM0_3V
GPIO_TS GPIO_HLBKUP GPIO12_3V GPIO14_3V SPI2_SCK_3V GPIO4_3V Uart4_Rx_3V FDCAN1_Rx_3V Uart5_Rx_3V I2C1_SDA PWM1_3V

J5 CAN1_Tx_JPR Uart5_Tx_3V FDCAN1_Tx_3V
J6 CAN2_Rx_JPR Uart5_Rx_3V FDCAN1_Rx_3V
STM32_VCC_5V C14 0.1uf GNDREF
MCP2562-E-P U3 TXD RXD Vio STBY VDD VSS CANH CANL
C11 0.1uf GNDREF STM32_VCC_3V
120R77 J9 FD-CAN1

J7 CAN2_Tx_JPR Uart7_Tx_3V FDCAN2_Tx_3V
J8 CAN2_Rx_JPR Uart7_Rx_3V FDCAN2_Rx_3V
STM32_VCC_5V 0.1uf C13 GNDREF
MCP2562-E-P U4
C12 0.1uf GNDREF STM32_VCC_3V
120R78 J11 FD-CAN2

STM32_3V R63 1k
USART1_Tx_3V Q5 BSS138 J12 LIN

+B J17 +B_VBU_Jmp Batery GNDREF
DC_SW_Module +B 5Va IG1_12V
VBU_SW IG1_SW +B_SW HL_BkupCtrl TS_Ctrl Turn_Sync Hl_Bkup
GPIO_VBU GPIO_IG1 GPIO_+B GPIO_HLBKUP GPIO_TS Turn_Sync HLBLKUP
File: DC_Module.kicad_sch

STM32_3V
R44 1k R45 1k
J25 J26 J27 J28 UART_1 UART_2 UART_3 UART_4
Q10 BSS138 Q11 BSS138 USART2_Tx_3V
GNDREF

GNDREF STM32_VCC_3V
PWM9_3V USART2_Tx_3V PWM5_3V PWM4_3V SPI1_MOSI_3V PWM3_3V SPI1_SCK_3V GPIO_HLBKUP USART1_Rx_3V(LIN) USART1_Tx_3V GPIO1_3V GPIO0_3V GPIO2_3V
GPIO_IG1 SPI2_SCK_3V GPIO_+B SPI2_MOSI_3V PWM1_3V Uart4_Rx_3V PWM2_3V PWM0_3V PWM6_3V PWM7_3V PWM8_3V I2C1_SCL I2C1_SDA FDCAN1_Rx_3V FDCAN1_Tx_3V STM32_VCC_5V
J19 F103_Right J18 F103_Left

J20 Debug ADC1_3V GPIO4_3V

STM32_3V
R53 1k D12 b5817ws PWM0_3V EXT0
R30 1k D15 b5817ws PWM1_3V EXT1
R31 40k D16 b5817ws PWM2_3V EXT2
R32 40k D17 b5817ws PWM3_3V EXT3
R33 40k D18 b5817ws PWM4_3V EXT4
R34 40k D19 b5817ws PWM5_3V EXT5
R54 40k D14 b5817ws PWM6_3V EXT6
R35 40k D20 b5817ws PWM7_3V EXT7
R55 40k D29 b5817ws PWM8_3V EXT8
R56 40k D30 b5817ws PWM9_3V EXT9
R57 40k D31 b5817ws PWM10_3V EXT10
R58 40k D32 b5817ws PWM11_3V EXT11
R59 40k D33 b5817ws PWM12_3V EXT12
R60 40k D34 b5817ws PWM13_3V EXT13

R36 40k D21 b5817ws GPIO0_3V GPIO0
R37 40k D22 b5817ws GPIO1_3V GPIO1
R38 40k D23 b5817ws GPIO2_3V GPIO2
R39 40k D24 b5817ws GPIO3_3V GPIO3
R40 40k D26 b5817ws GPIO4_3V GPIO4
R41 40k D27 b5817ws GPIO5_3V GPIO5
R42 40k D25 b5817ws GPIO6_3V GPIO6
R43 40k D28 b5817ws GPIO7_3V GPIO7
R64 40k D35 b5817ws GPIO8_3V GPIO8
R65 40k D36 b5817ws GPIO9_3V GPIO9
R66 40k D37 b5817ws GPIO10_3V GPIO10
R67 40k D38 b5817ws GPIO11_3V GPIO11
R68 40k D39 b5817ws GPIO12_3V GPIO12
R69 40k D40 b5817ws GPIO13_3V GPIO13
R70 40k D41 b5817ws GPIO14_3V GPIO14

R51 4.7k R61 2.35k ADC1_3V 5Va
R52 4.7k R62 2.35k ADC2_3V 5Vb
GNDREF

R71 40k D43 b5817ws SPI1_MOSI_3V SPI1_MOSI
R72 40k D45 b5817ws SPI1_SCK_3V SPI1_SCK
R73 40k D47 b5817ws SPI2_MOSI_3V SPI2_MOSI
R74 40k D48 b5817ws SPI2_SCK_3V SPI2_SCK
R75 40k D50 b5817ws SPI3_MOSI_3V SPI3_MOSI
R76 40k D52 b5817ws SPI3_SCK_3V SPI3_SCK

STM32_VCC_3V STM32_VCC_5V
R1 1k R16 1k Q3 BSS138 I2C1_SCL
DAC_Generator ADC_5V SCL SDA ADC1_1D ADC1_2D ADC1_3D ADC1_4D ADC2_1D ADC2_2D ADC2_3D ADC2_4D
DAC_0 DAC_1 DAC_2 DAC_3 DAC_4 DAC_5 DAC_6 DAC_7
File: DAC_Generator.kicad_sch
STM32_VCC_3V STM32_VCC_5V
R13 1k R17 1k Q4 BSS138 I2C1_SDA

U1 ADS7828 GNDREF
C3 1nf C5 1nf C7 1nf C9 1nf
R14 1k R15 1k
A1 A0 GND COM CH7 CH6 CH5 CH4 CH3 CH2 CH1 CH0 REF SCL SDA VDD
R18 R19 R20 R21 R22 R23 R28 R29 1k
ADC7 ADC6 ADC5 ADC4 ADC3 ADC2 ADC1 ADC0
STM32_VCC_5V C1 0.1uf
C4 1nf C6 1nf C8 1nf C10 1nf
C2 0.1uf GNDREF

U7 Conn_2x40
U2 Conn_2x40
EXT0 EXT1 EXT2 EXT3 EXT4 EXT5 EXT6 EXT7 EXT8 EXT9 EXT10 EXT11 EXT12 EXT13
ADC0 ADC1 ADC2 ADC3 ADC4 ADC5 ADC6 ADC7
GPIO0 GPIO1 GPIO2 GPIO3 GPIO4 GPIO5 GPIO6 GPIO7 GPIO8 GPIO9 GPIO10 GPIO11 GPIO12 GPIO13 GPIO14
SPI_CS1 SPI_CS3 SPI1_SCK SPI2_SCK SPI3_SCK SPI_CS2 SPI_CS4 SPI1_MOSI SPI2_MOSI SPI3_MOSI
Uart4_Rx Uart5_Rx Uart7_Rx USART1_Rx_LIN
5Va VBoost 5Vb
DAC_0 DAC_1 DAC_2 DAC_3 DAC_4 DAC_5 DAC_6 DAC_7
Turn_Sync HLBLKUP

Connector Module

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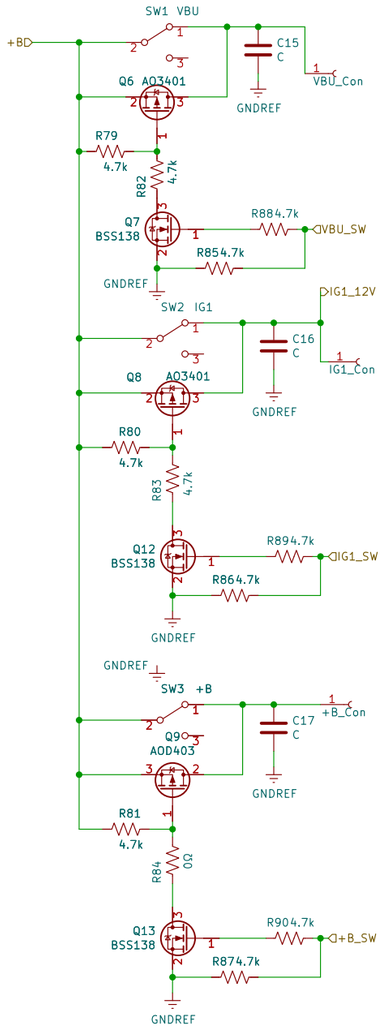
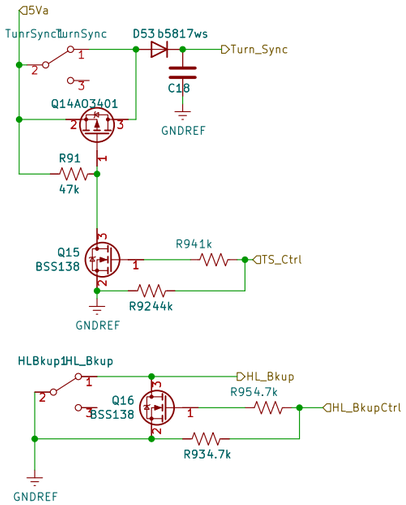
KiCad E.D.A. kicad (6.0.7) | Id: 1/3





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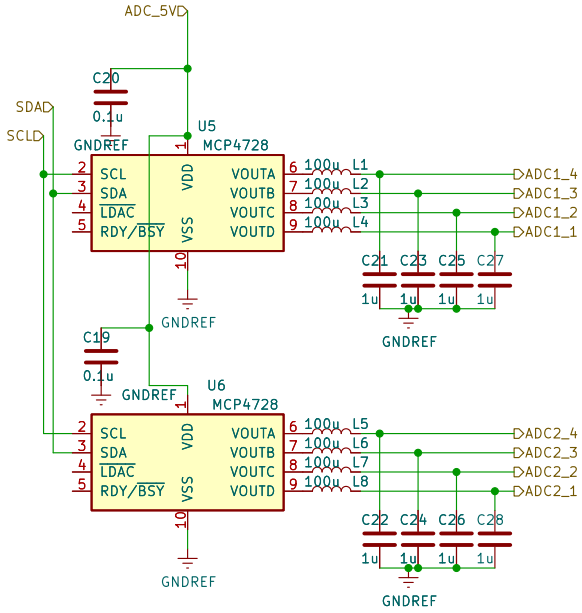

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