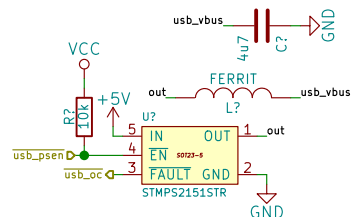
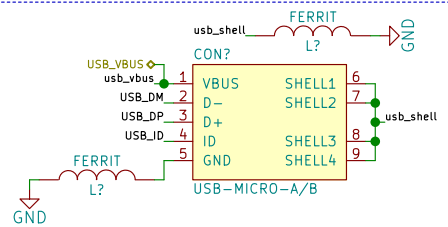


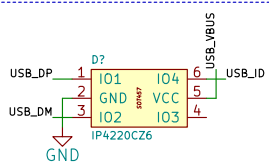
USB Power Switch  
with overcurrent detection



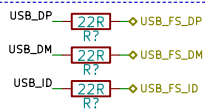
USB Jack



USB ESD protection



Termination



Sheet: /uacs-usb/  
File: uacs-2-bottom-usb.sch

**Title:**

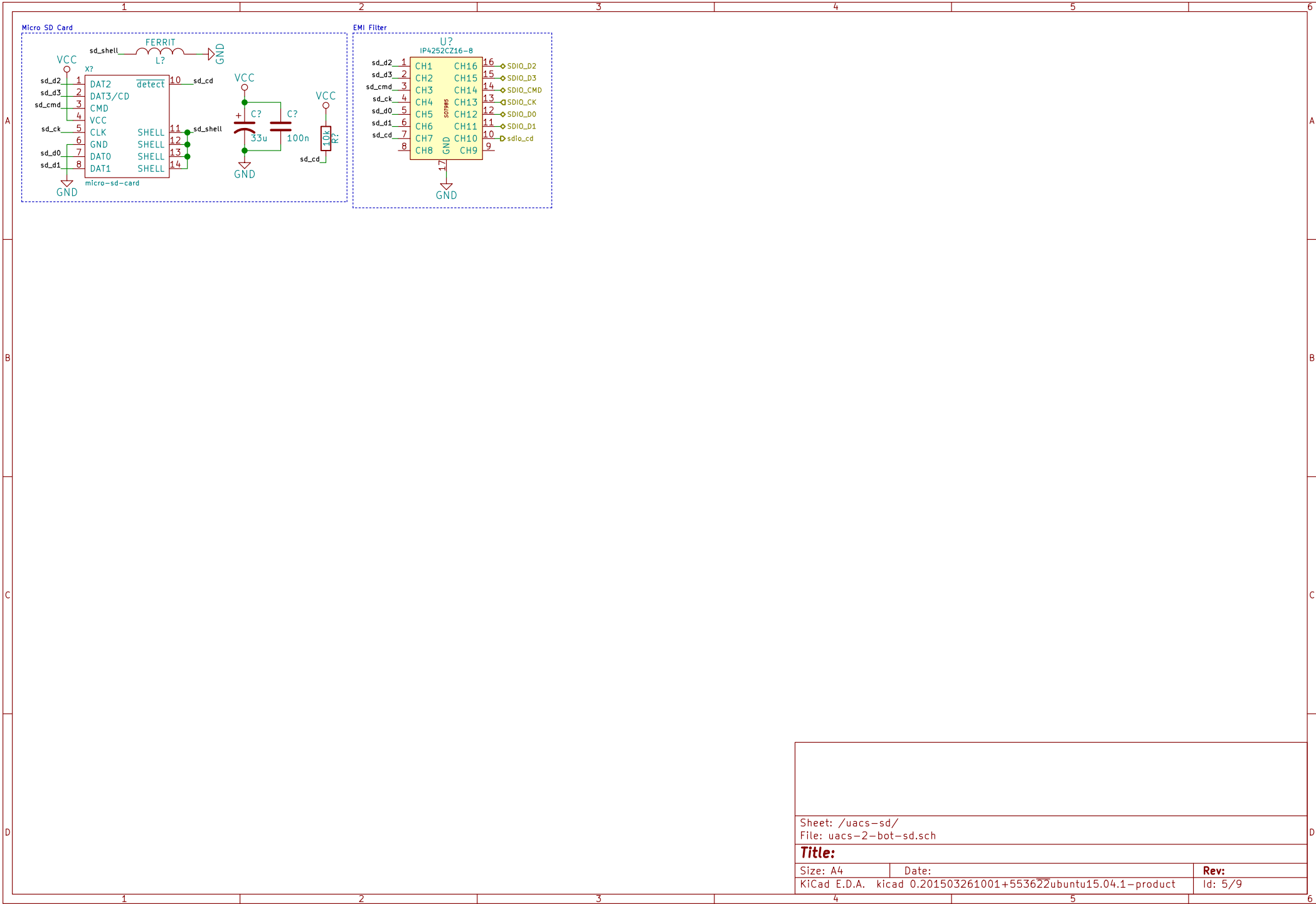
Size: A4

Date:

**Rev:**

KiCad E.D.A. kicad 0.201503261001+55362ubuntu15.04.1-product

Id: 4/9







1	2	3	4	5	6	
A	<div>IC?D</div> <div><div><div>142</div><div>PD0/CAN1_RX/FMC_D2/EVENTOUT</div></div><div><div>143</div><div>PD1/CAN1_TX/FMC_D3/EVENTOUT</div></div><div><div>144</div><div>PD2/TIM3_ETR/UART5_RX/SDIO_CMD/DCML_D11/EVENTOUT</div></div><div><div>145</div><div>PD3/SPI2_SCK/I2S2_CK/USART2_CTS/FMC_CLK/DCML_D5/LCD_G7/EVENTOUT</div></div><div><div>146</div><div>PD4/USART2_RTS/FMC_NOE/EVENTOUT</div></div><div><div>147</div><div>PD5/USART2_TX/FMC_NWE/EVENTOUT</div></div><div><div>150</div><div>PD6/SPI3_MOSI/I2S3_SD/SAI1_SD_A/USART2_RX/FMC_NWAIT/DCML_D10/LCD_B2/EVENTOUT</div></div><div><div>151</div><div>PD7/USART2_CK/FMC_NE1/FMC_NCE2/EVENTOUT</div></div><div><div>96</div><div>PD8/USART3_TX/FMC_D13/EVENTOUT</div></div><div><div>97</div><div>PD9/USART3_RX/FMC_D14/EVENTOUT</div></div><div><div>98</div><div>PD10/USART3_CK/FMC_D15/LCD_B3/EVENTOUT</div></div><div><div>99</div><div>PD11/USART3_CTS/FMC_A16/EVENTOUT</div></div><div><div>100</div><div>PD12/TIM4_CH1/USART3_RTS/FMC_A17/EVENTOUT</div></div><div><div>101</div><div>PD13/TIM4_CH2/FMC_A18/EVENTOUT</div></div><div><div>104</div><div>PD14/TIM4_CH3/FMC_D0/EVENTOUT</div></div><div><div>105</div><div>PD15/TIM4_CH4/FMC_D1/EVENTOUT</div></div></div> <div>LQFP176</div> <div>STM32F4291TX</div> <div>IC?E</div> <div><div><div>169</div><div>PE0/TIM4_ETR/UART8_RX/FMC_NBL0/DCML_D2/EVENTOUT</div></div><div><div>170</div><div>PE1/UART8_Tx/FMC_NBL1/DCML_D3/EVENTOUT</div></div><div><div>1</div><div>PE2/TRACECLK/SPI4_SCK/SAI1_MCLK_A/ETH_MII_TXD3/FMC_A23/EVENTOUT</div></div><div><div>2</div><div>PE3/TRACED0/SAI1_SD_B/FSMC_A19/EVENTOUT</div></div><div><div>3</div><div>PE4/TRACED1/SPI4_NSS/SAI1_FS_A/FSMC_A20/DCML_D4/LCD_B0/EVENTOUT</div></div><div><div>4</div><div>PE5/TRACED2/TIM9_CH1/SPI4_MISO/SAI1_SCK_A/FMC_A21/DCML_D6/LCD_G0/EVENTOUT</div></div><div><div>5</div><div>PE6/TRACED3/TIM9_CH2/SPI4_MOSI/SAI1_SD_A/FMC_A22/DCML_D7/LCD_G1/EVENTOUT</div></div><div><div>68</div><div>PE7/TIM1_ETR/UART7_Rx/FMC_D4/EVENTOUT</div></div><div><div>69</div><div>PE8/TIM1_CH1N/UART7_Tx/FMC_D5/EVENTOUT</div></div><div><div>70</div><div>PE9/TIM1_CH1/FMC_D6/EVENTOUT</div></div><div><div>73</div><div>PE10/TIM1_CH2N/FMC_D7/EVENTOUT</div></div><div><div>74</div><div>PE11/TIM1_CH2/SPI4_NSS/FMC_D8/LCD_G3/EVENTOUT</div></div><div><div>75</div><div>PE12/TIM1_CH3N/SPI4_SCK/FMC_D9/LCD_B4/EVENTOUT</div></div><div><div>76</div><div>PE13/TIM1_CH3/SPI4_MISO/FMC_D10/LCD_DE/EVENTOUT</div></div><div><div>77</div><div>PE14/TIM1_CH4/SPI4_MOSI/FMC_D11/LCD_CLK/EVENTOUT</div></div><div><div>78</div><div>PE15/TIM1_BKIN/FMC_D12/LCD_R7/EVENTOUT</div></div></div> <div>LQFP176</div> <div>STM32F4291TX</div> <div>IC?F</div> <div><div><div>16</div><div>PF0/I2C2_SDA/FMC_A0/EVENTOUT</div></div><div><div>17</div><div>PF1/I2C2_SCL/FMC_A1/EVENTOUT</div></div><div><div>18</div><div>PF2/I2C2_SMBA/FMC_A2/EVENTOUT</div></div><div><div>19</div><div>PF3/FMC_A3/ADC3_IN9/EVENTOUT</div></div><div><div>20</div><div>PF4/FMC_A4/ADC3_IN14/EVENTOUT</div></div><div><div>21</div><div>PF5/FMC_A5/ADC3_IN15/EVENTOUT</div></div><div><div>24</div><div>PF6/TIM10_CH1/SPI5_NSS/SAI1_SD_B/UART7_Rx/FMC_NIORD/ADC3_IN4/EVENTOUT</div></div><div><div>25</div><div>PF7/TIM11_CH1/SPI5_SCK/SAI1_MCLK_B/UART7_Tx/FMC_NREG/ADC3_IN5/EVENTOUT</div></div><div><div>26</div><div>PF8/SPI5_MISO/SAI1_SCK_B/TIM13_CH1/FMC_NIOWR/ADC3_IN6/EVENTOUT</div></div><div><div>27</div><div>PF9/SPI5_MOSI/SAI1_FS_B/TIM14_CH1/FMC_CD/ADC3_IN7/EVENTOUT</div></div><div><div>28</div><div>PF10/FMC_INTR/DCML_D11/LCD_DE/ADC3_IN8/EVENTOUT</div></div><div><div>59</div><div>PF11/SPI5_MOSI/FMC_SDNRAS/DCML_D12/EVENTOUT</div></div><div><div>60</div><div>PF12/FMC_A6/EVENTOUT</div></div><div><div>63</div><div>PF13/FMC_A7/EVENTOUT</div></div><div><div>64</div><div>PF14/FMC_A8/EVENTOUT</div></div><div><div>65</div><div>PF15/FMC_A9/EVENTOUT</div></div></div> <div>LQFP176</div> <div>STM32F4291TX</div>					
B						
C						
D	<div>Sheet: /uacs-stm32-pd-f/ File: uacs-2-bot-stm32-pd-f.sch</div> <div><div>Title:</div><div><div>Size: A4</div><div>Date:</div></div><div><div>KiCad E.D.A.   kicad 0.201503261001+553622ubuntu15.04.1-product</div><div>Rev: Id: 8/9</div></div></div>					
1	2	3	4	5	6	



```
PG0/FMC_A10/EVENTOUT
PG1/FMC_A11/EVENTOUT
PG2/FMC_A12/EVENTOUT
PG3/FMC_A13/EVENTOUT
PG4/FMC_A14/FMC_BA0/EVENTOUT
PG5/FMC_A15/FMC_BA/EVENTOUT
PG6/FMC_INT2/DCML_D12/LCD_R7/EVENTOUT
PG7/USART6_CK/FMC_INT3/DCML_D13/LCD_CLK/EVENTOUT
PG8/SPI6_NSS/USART6_RT5/ETH_PP5_OUT/FMC_SDCLK/EVENTOUT
PG9/USART6_RX/FMC_NE2/FMC_NCE3/DCML_VSYNC/EVENTOUT
PG10/LCD_G3/FMC_NCE4_1/FMC_NE3/DCML_D2/LCD_B2/EVENTOUT
PG11/ETH_MIL_TX_ETH/ETH_RMIL_TX_ETH/FMC_NCE4_2/DCML_D3/LCD_B3/EVENTOUT
PG12/SPI6_MISO/USART6_RTS/LCD_B4/FMC_NE4/LCD_B1/EVENTOUT
PG13/SPI6_SCK/USART6_CTS/ETH_MIL_TXD0/ETH_RMIL_TXD0/FMC_A24/EVENTOUT
PG14/SPI6_MOSI/USART6_TX/ETH_MIL_TXD1/ETH_RMIL_TXD1/FMC_A25/EVENTOUT
PG15/USART6_CTS/FMC_SDNCA5/DCML_D13/EVENTOUT
```

STM32F429IXTX

```
PH0/OSC_IN/EVENTOUT
PH1/OSC_OUT/EVENTOUT
PH2/ETH_MIL_CRS/FMC_SDCKE0/LCD_R0/EVENTOUT
PH3/ETH_MIL_COL/FMC_SDNE0/LCD_R1/EVENTOUT
PH4/I2C2_SCL/OTG_HS_ULPI_NXT/EVENTOUT
PH5/I2C2_SDA/SPIS_NSS/FMC_SDNWE/EVENTOUT
PH6/I2C2_SMBA/SPIS_SCK/TIM12_CH1/ETH_MIL_RXD2/FMC_SDNE1/DCMI_D8/EVENTOUT
PH7/I2C3_SCL/SPIS_MISO/ETH_MIL_RXD3/FMC_SDCKE1/DCMI_D9/EVENTOUT
PH8/I2C3_SDA/FMC_D16/DCMI_HSYNC/LCD_R2/EVENTOUT
PH9/I2C3_SMBA/TIM12_CH2/FMC_D17/DCMI_D0/LCD_R3/EVENTOUT
PH10/TIM5_CH1/FMC_D18/DCMI_D1/LCD_R4/EVENTOUT
PH11/TIM5_CH2/FMC_D19/DCMI_D2/LCD_R5/EVENTOUT
PH12/TIM5_CH3/FMC_D20/DCMI_D3/LCD_R6/EVENTOUT
PH13/TIM8_CH1N/CAN1_TX/FMC_D21/LCD_G2/EVENTOUT
PH14/TIM8_CH2N/FMC_D22/DCMI_D4/LCD_G3/EVENTOUT
PH15/TIM8_CH3N/FMC_D23/DCMI_D11/LCD_G4/EVENTOUT
```

STM32F429IXTX

```

PI0/TIM5_CH4/SPI2_NSS/I2S2_WS/FMC_D24/DCMLD13/LCD_G5/EVENTOUT
PI1/SPI2_SCK/I2S2_CK/FMC_D25/DCMLD8/LCD_G6/EVENTOUT
PI2/TIM8_CH4/SPI2_MISO/I2S2ext_SD/FMC_D26/DCMLD9/LCD_G7/EVENTOUT
PI3/TIM8_ETR/SPI2_MOSI/I2S2_SD/FMC_D27/DCMLD10/EVENTOUT
PI4/TIM8_BKIN/FMC_NBL2/DCMLD5/LCD_B4/EVENTOUT
PI5/TIM8_CH1/FMC_NBL3/DCML_VSYNC/LCD_B5/EVENTOUT
PI6/TIM8_CH2/FMC_D28/DCMLD6/LCD_B6/EVENTOUT
PI7/TIM8_CH3/FMC_D29/DCMLD7/LCD_B7/EVENTOUT
PI8/TAMP_2/EVENTOUT
PI9/CAN1_RX/FMC_D30/LCD_VSYNC/EVENTOUT
PI10/ETH_MII_RX_ER/FMC_D31/LCD_HS_VSYNC/EVENTOUT
PI11/OTG_HS_ULPI_DIR/EVENTOUT

```

STM32F429IXTX

Size: A4	Date:	Rev:
KiCad E.D.A.	kiCad 0.201503261001+553622ubuntu15.04.1-product	Id: 9/9