

imp005 Module

GPIO (Secondary Function)

Buttons

- BUTTON A11
- STATUS GRN A10
- STATUS RED A27
- PinG A31
- FOOTSWITCH A45
- PinJ A47
- PinK A46

BLINKUP OUT A49

USB RESET_N B19

PinS D7

PinT D8

PinU C9

PinV C10

PinW C16

PinY C14

PinXA (WAKE) B4

PinXB (WAKE) B30

PinXC (WAKE) B31

PinXD (WAKE) B32

PinXE (WAKE) B33

Supported As GPIO

- U0_TX A55
- U0_RX A52
- U0_RTS A53
- U0_CTS A54
- U1_TX B15
- U1_RX R24 1K B14
- U2_TX C7
- U2_RX R25 1K B18

Dedicated Interfaces [No GPIO]

- SPI0_SCLK B32
- SPI0_MOSI B30
- SPI0_MISO B31
- SPI0_CS_L B33

Required Connections

- I2C0_SCL R2
- I2C0_SDA R4
- I2C0_DN A28
- I2C0_SDA A29

Ethernet PHY

- RMII_MDC A15
- RMII_MDIO A20
- RMII_CLOCK A17
- RMII_REF_CLK D2
- RMII_TXD0 A19
- RMII_TXEN A13
- RMII_RXD0 A16
- RMII_RXD1 A18
- RMII_CRS_DV A14

RF

- RF_OUT A6
- ANT0 A25
- ANT_DIV0 A20
- ANT_DIV1 A21

Flash

- FLASH_SCLK R4
- FLASH_CS_L A4
- FLASH_MOSI_D0 R5
- FLASH_MISO_D1 A22
- FLASH_WP_L D2
- FLASH_HOLD_D3 D1

Opto

- BLINKUP DIN A50
- BLINKUP EN_L A51
- LED_RED B35
- LED_GRN B36

Opto

- OPTO_DIN U1
- OPTO_EN_L U1

Opto

- LED_RED B35
- LED_GRN B36

Opto

- LED_RED B35
- LED_GRN B36

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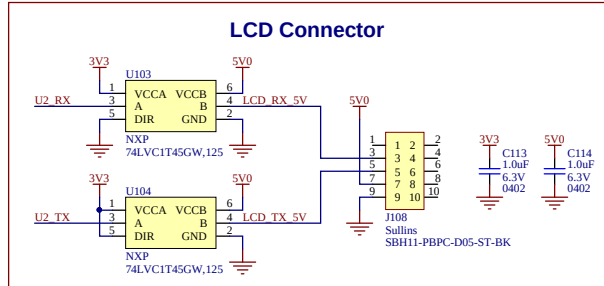
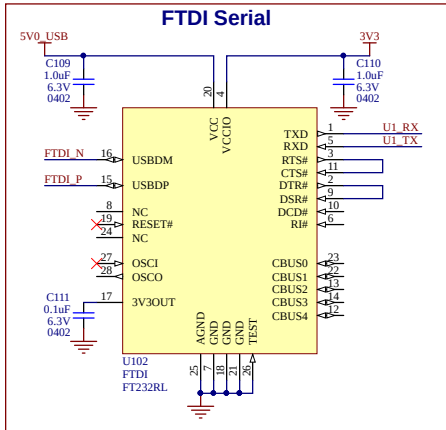
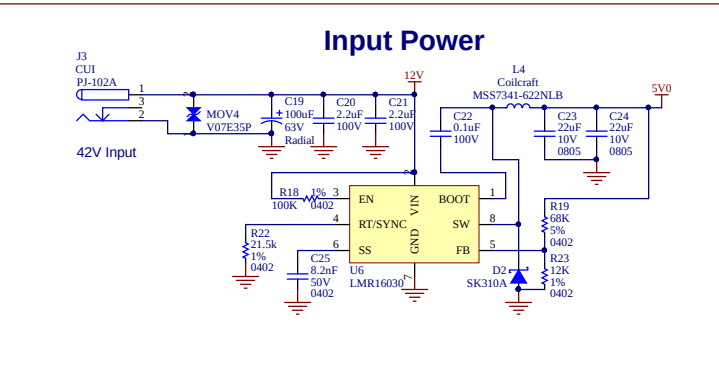
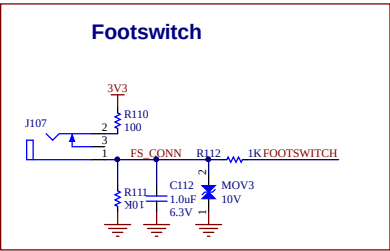
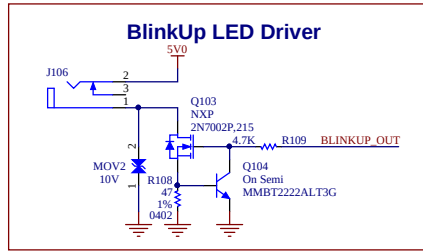
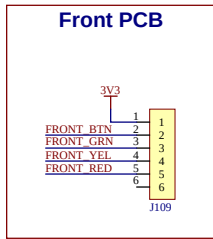
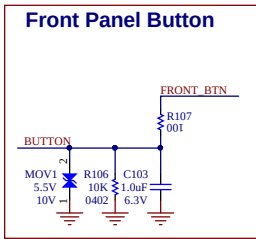
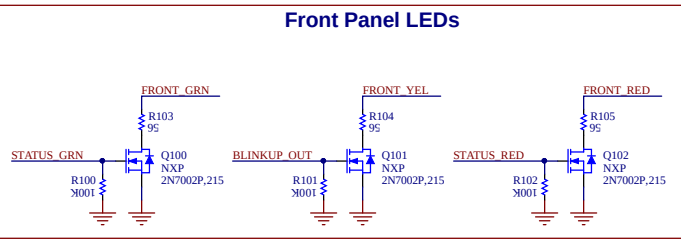
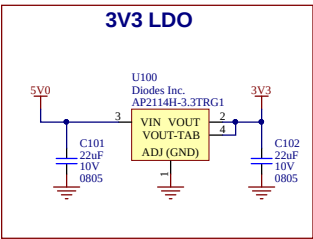
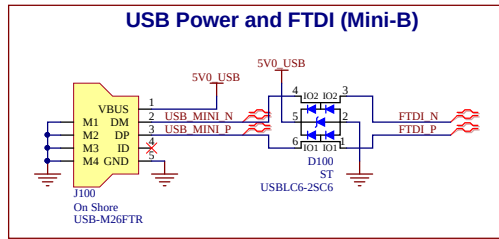
- LED_RED B35
- LED_GRN B36

Opto

- LED_RED B35
- LED_GRN B36

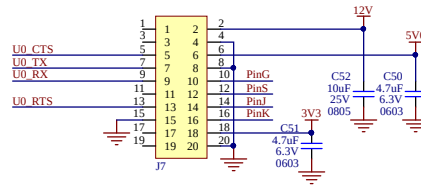
Power

- VDD A43
- VDD_3V3 A56
- VDD_3V3 A57
- VDD_3V3 A35
- VDD_3V3 A34
- VDD_3V3 PA A39
- VDD_3V3_OUT A22
- VDD_3V3_IN A44
- VDD_3V3 DCDC_OUT A41
- POWER_ON B13
- HIB_WAKE_L B12
- RESET_L B12
- XTAL32K_OUT A24
- XTAL32K_IN A23
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- DNC



FTDI UART0

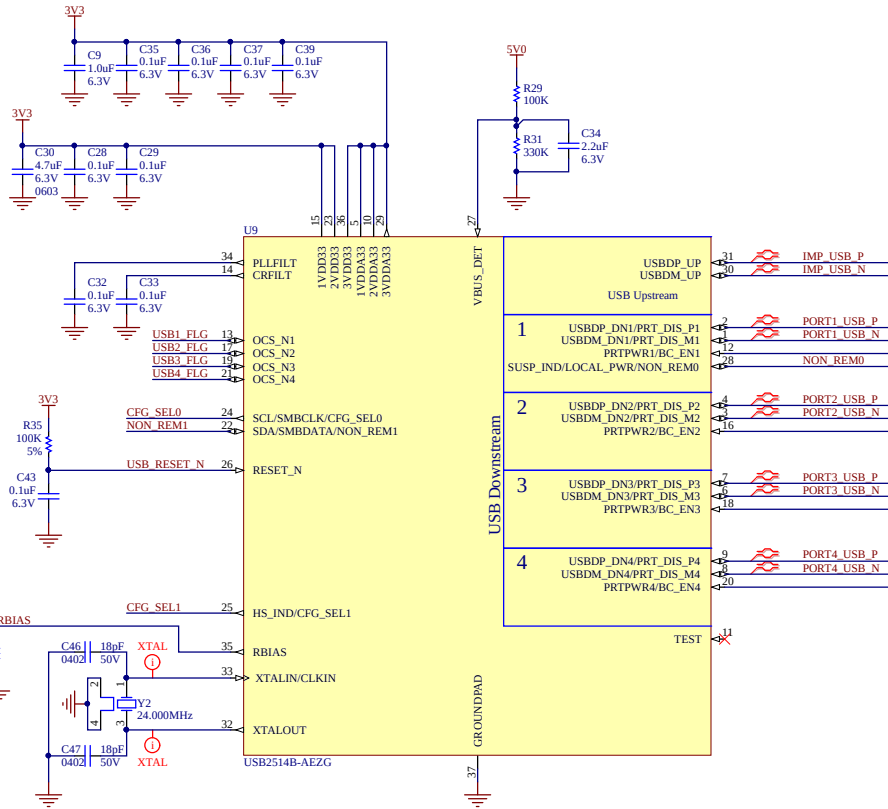
Power & GPIO



Mechanical

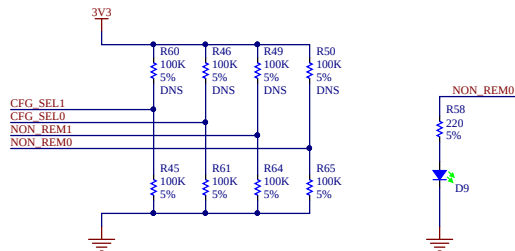
Enclosure	Mech. Context Engineering 6016H-8.5N	Hex Nut	McMaster-Carr 90695A031	Spacer	McMaster-Carr 94669A612	Washer	McMaster-Carr 90965A115	Mounting Screw	McMaster-Carr 91290A053	Thread Forming Panel Screw	McMaster-Carr 94209A485	Antenna	McMaster-Carr 94209A485
Front Button	Mech. Apem IAR3F1300	Hex Nut	McMaster-Carr 90695A031	Spacer	McMaster-Carr 94669A612	Washer	McMaster-Carr 90965A115	Mounting Screw	McMaster-Carr 91290A053	Thread Forming Panel Screw	McMaster-Carr 94209A485	Antenna	McMaster-Carr 94209A485
LCD	Mech. Crystalfontz CFA533-TFH-KL	Hex Nut	McMaster-Carr 90695A031	Spacer	McMaster-Carr 94669A612	Washer	McMaster-Carr 90965A115	Mounting Screw	McMaster-Carr 91290A053	Thread Forming Panel Screw	McMaster-Carr 94209A485	Antenna	McMaster-Carr 94209A485
LCD Cable	Mech. Assmann HKC10H/AE10G/HKC10H	Hex Nut	McMaster-Carr 90695A031	Spacer	McMaster-Carr 94669A612	Washer	McMaster-Carr 90965A115	Mounting Screw	McMaster-Carr 91290A053	Thread Forming Panel Screw	McMaster-Carr 94209A485	Antenna	McMaster-Carr 94209A485

USB Hub

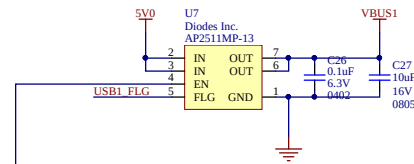


Config Straps - Config from Resistor Strapping

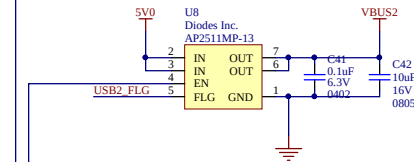
CFG_SEL[1:0] = 00 -> Use default config with strapping options
NON_REM[1:0] = 00 -> All ports removable



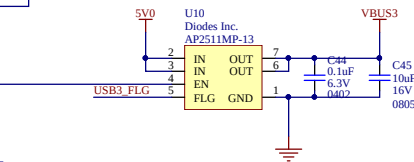
USB Load Switch



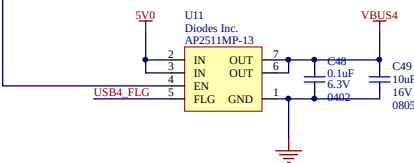
USB Load Switch



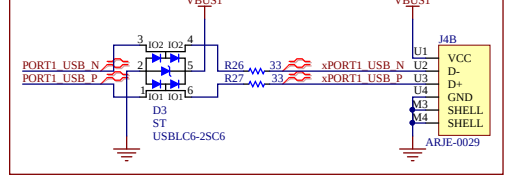
USB Load Switch



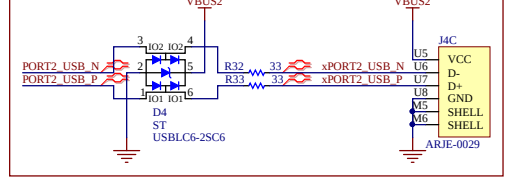
USB Load Switch



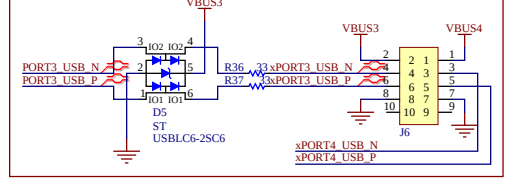
USB Host Connector (Type A)



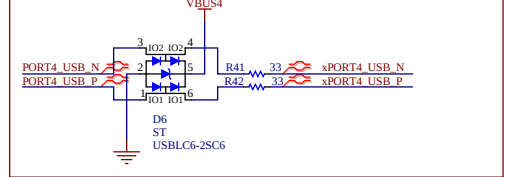
USB Host Connector (Type A)



USB Host Connector (Type A)



USB Host Connector (Type A)



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Design: **factory-blinkup-box005** Rev: **2.0**
Sheet: 3 of 3 Date: 17/10/2019 Time: 21:01:11
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