Electronics Field Prototype 1

Schematic version 105358-3SC001-03-E

Block diagram
105358-3SC001-03_BlockDiagram.SchDoc

2 Block Diagram
3 Power Management
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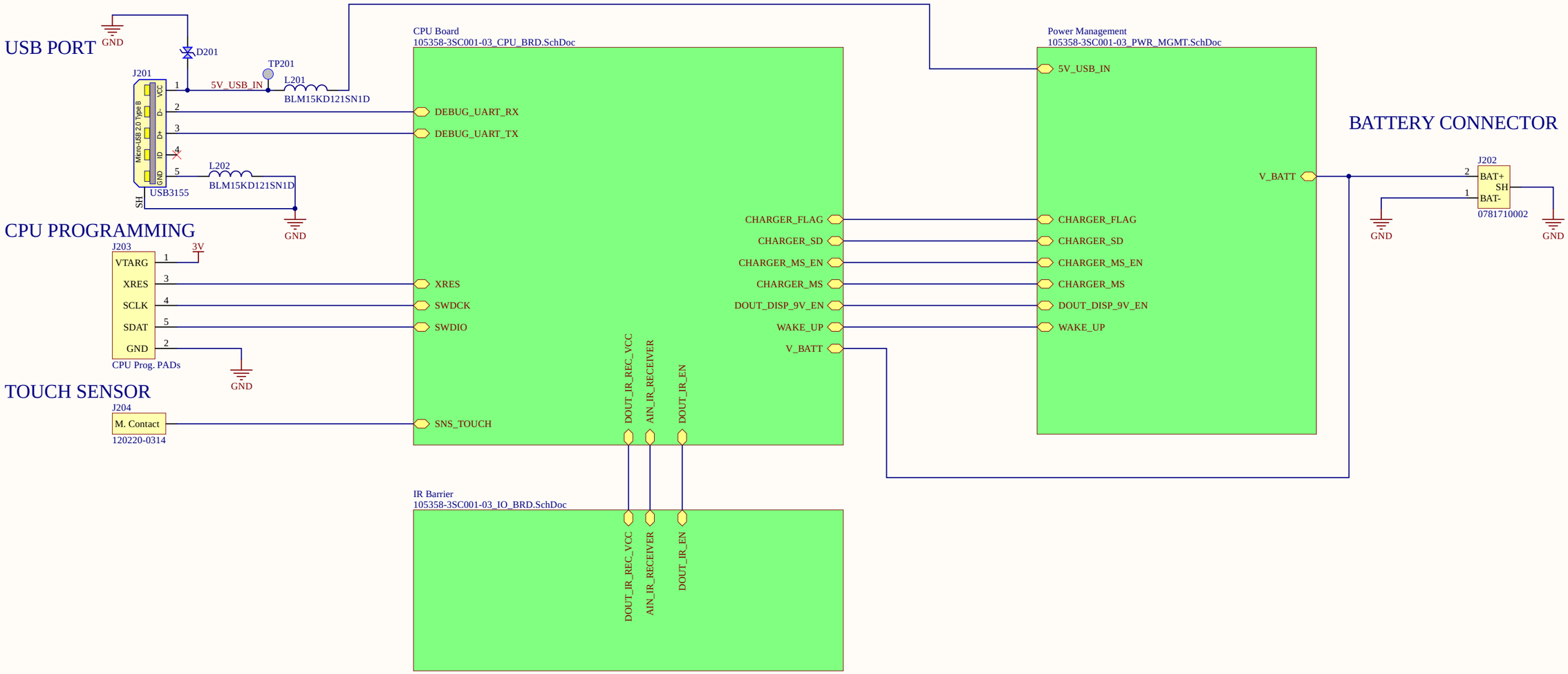
Customer, project: Innovation Zed					Board: EFP1	
Title: Cover- EFP1					Drawn By: Kartik Karuna	Size: A3
Document Number: 105358-3SC001-03	Sheet: 1	of: 5	Last modified: 2018-03-06	Rev: E	Build: 209 [Out of date]	

Block Diagram



FID FIDU201 FID FIDU202 FID FIDU203 FID FIDU204

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Customer, project: Innovation Zed					Board: EFP1	
Title: Block Diagram					Drawn By: Kartik Karuna	Size: A3
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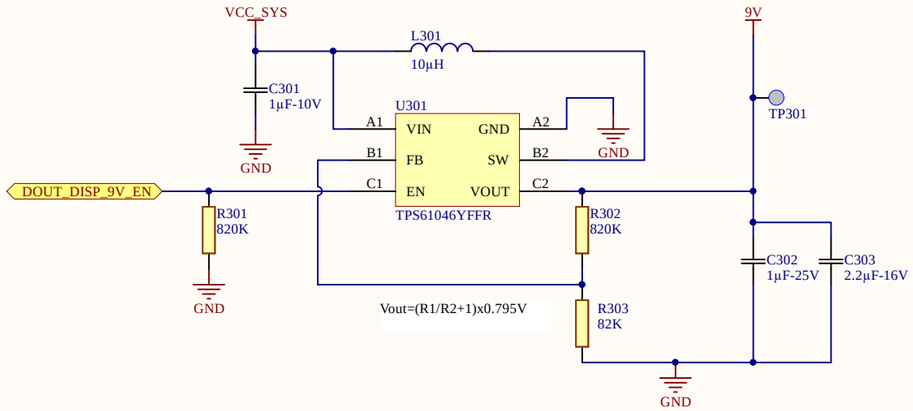
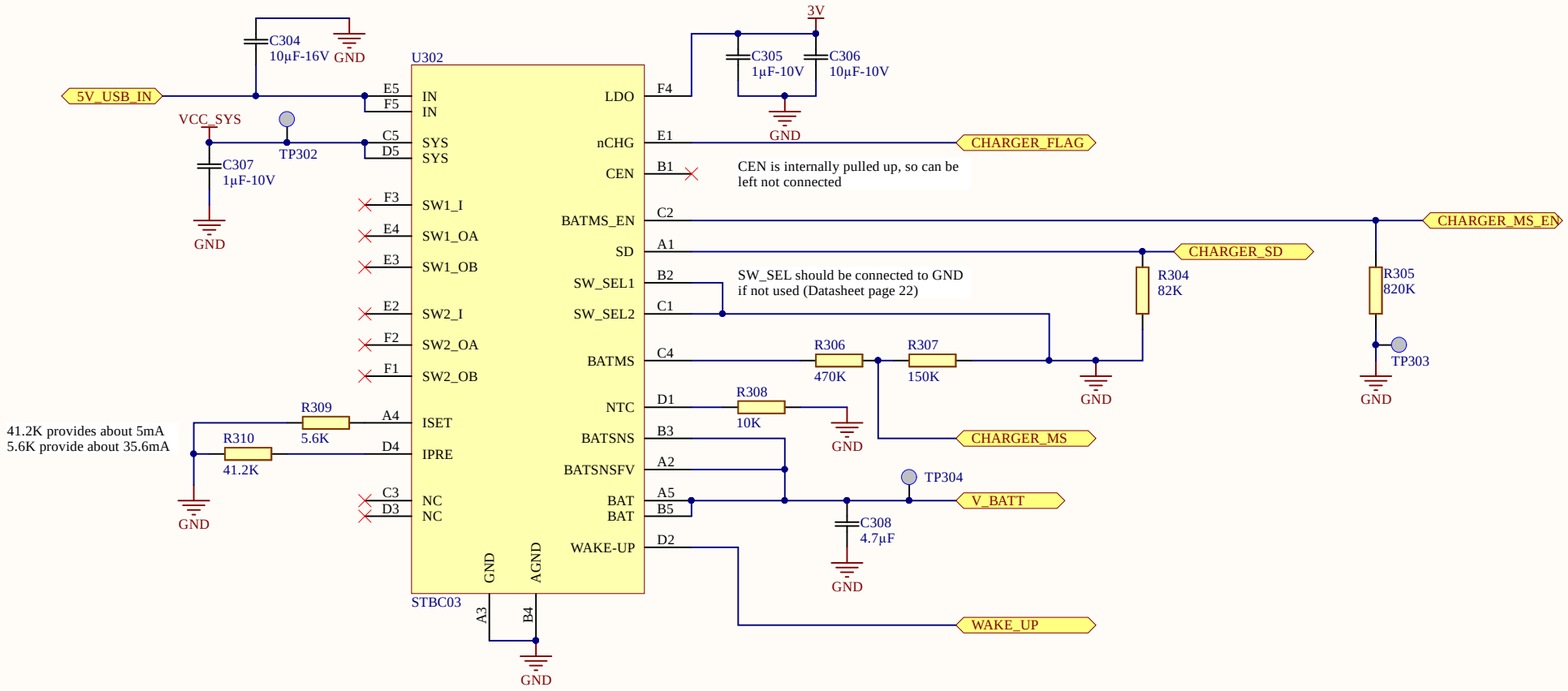
Power Management

BOOST CONVERTER



BATTERY CHARGER



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	Title: Power Management			Drawn By: Kartik Karuna	Size: A3
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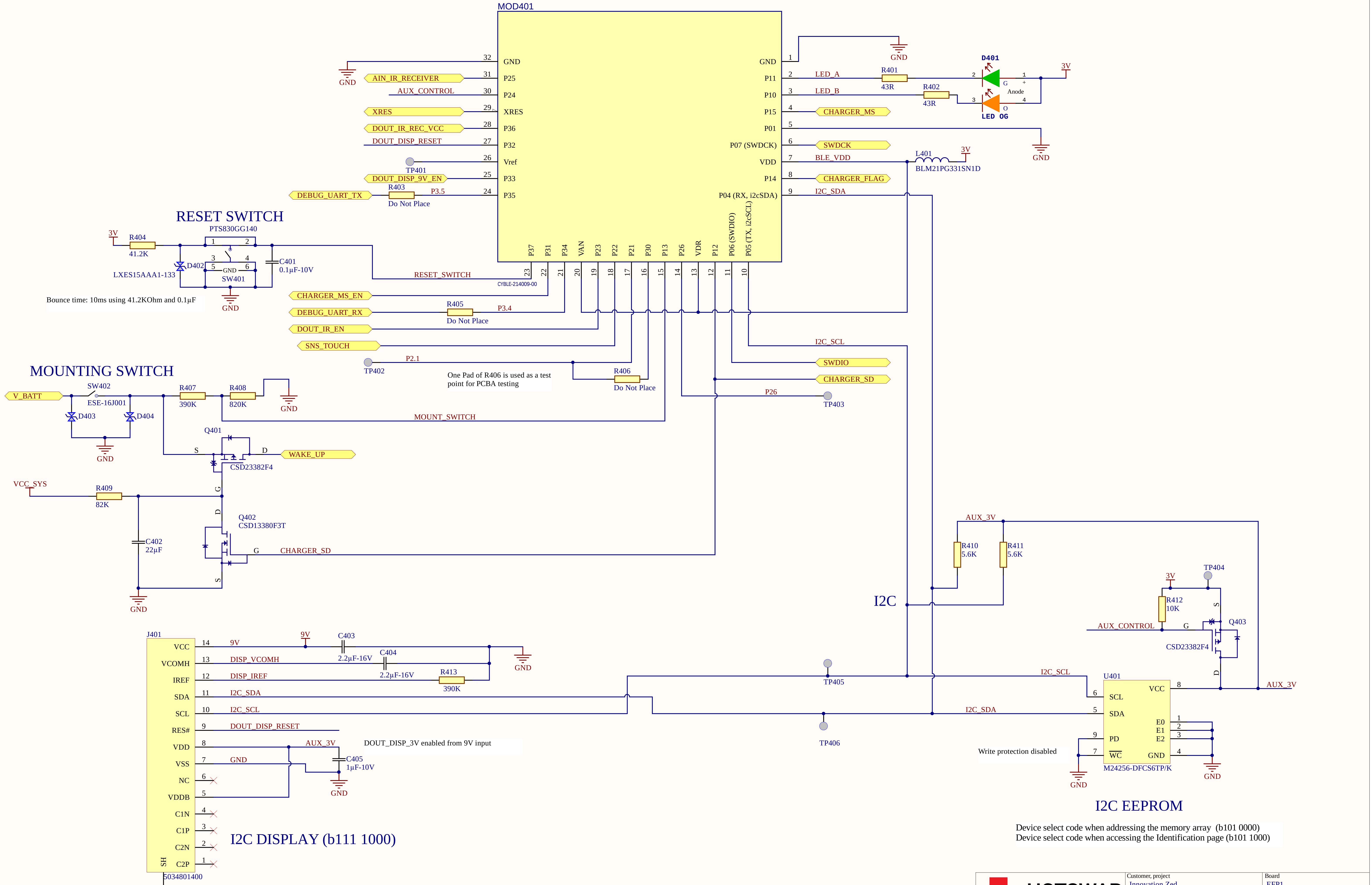
CPU


MOD401
CYBLE-214009-00
GND
P25
P24
XRES
P36
P32
Vref
P33
P35
GND
P11
P10
P15
P01
P07 (SWDCK)
VDD
P14
P04 (RX, i2cSDA)
P37 P31 P34 VAN P23 P22 P21 P30 P13 P26 VDR P12 P06 (SWDIO) P05 (TX, i2cSCL)
AIN_IR_RECEIVER
AUX_CONTROL
XRES
DOUT_IR_REC_VCC
DOUT_DISP_RESET
TP401
DOUT_DISP_9V_EN
DEBUG_UART_TX
R403
Do Not Place
P3.5
LED_A
LED_B
R401
43R
R402
43R
D401
LED OG
Anode
3V
CHARGER_MS
SWDCK
BLE_VDD
L401
BLM21PG331SN1D
CHARGER_FLAG
I2C_SDA
RESET SWITCH
PTS830GG140
R404
41.2K
D402
LXES15AAA1-133
SW401
C401
0.1µF-10V
RESET_SWITCH
Bounce time: 10ms using 41.2KOhm and 0.1µF
CHARGER_MS_EN
DEBUG_UART_RX
R405
Do Not Place
P3.4
DOUT_IR_EN
SNS_TOUCH
TP402
P2.1
One Pad of R406 is used as a test point for PCBA testing
R406
Do Not Place
I2C_SCL
SWDIO
CHARGER_SD
P26
TP403
MOUNTING SWITCH
V_BATT
SW402
ESE-16J001
D403
D404
R407
390K
R408
820K
MOUNT_SWITCH
Q401
CSD23382F4
WAKE_UP
VCC_SYS
R409
82K
C402
22µF
Q402
CSD13380F3T
CHARGER_SD
AUX_3V
R410
5.6K
R411
5.6K
I2C
TP404
R412
10K
AUX_CONTROL
Q403
CSD23382F4
J401
VCC
VCOMH
IREF
SDA
SCL
RES#
VDD
VSS
NC
VDDB
C1N
C1P
C2N
C2P
SH
5034801400
9V
DISP_VCOMH
DISP_IREF
I2C_SDA
I2C_SCL
DOUT_DISP_RESET
AUX_3V
GND
C403
2.2µF-16V
C404
2.2µF-16V
R413
390K
C405
1µF-10V
DOUT_DISP_3V enabled from 9V input
TP405
TP406
U401
M24256-DFCS6TP/K
SCL
SDA
PD
WC
VCC
E0
E1
E2
GND
Write protection disabled
I2C DISPLAY (b111 1000)
I2C EEPROM
Device select code when addressing the memory array (b101 0000)
Device select code when accessing the Identification page (b101 1000)

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Customer, project	Board	
Innovation Zed	EFP1	
Title	Drawn By	Size
CPU Board	Kartik Karuna	A3

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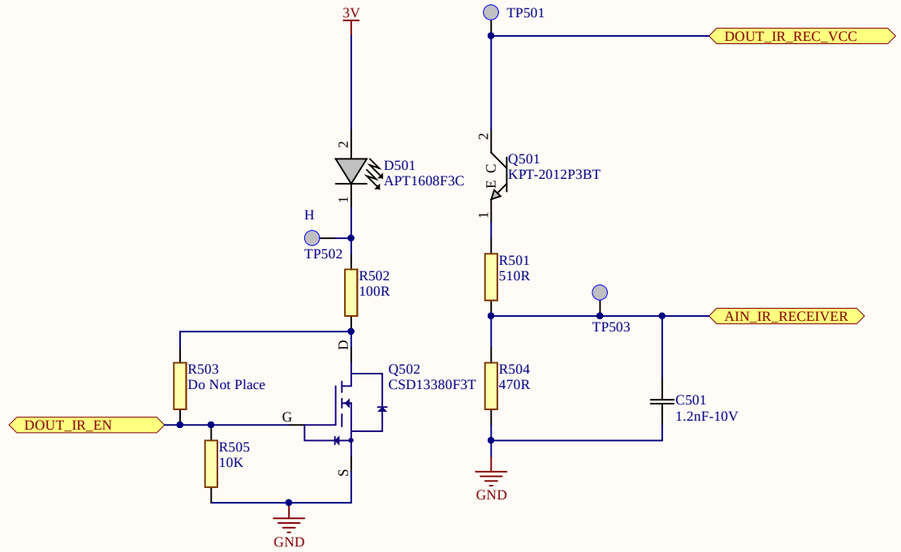
IR Barrier



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	Title: IR Barrier					Drawn By: Kartik Karuna	Size: A3
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