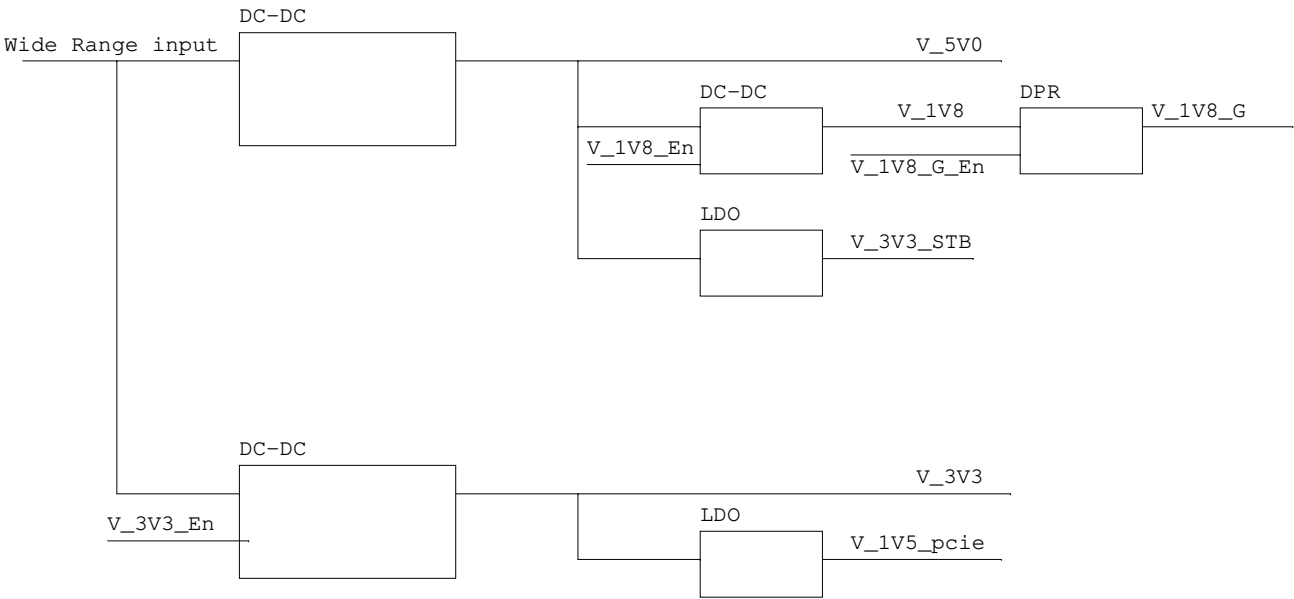
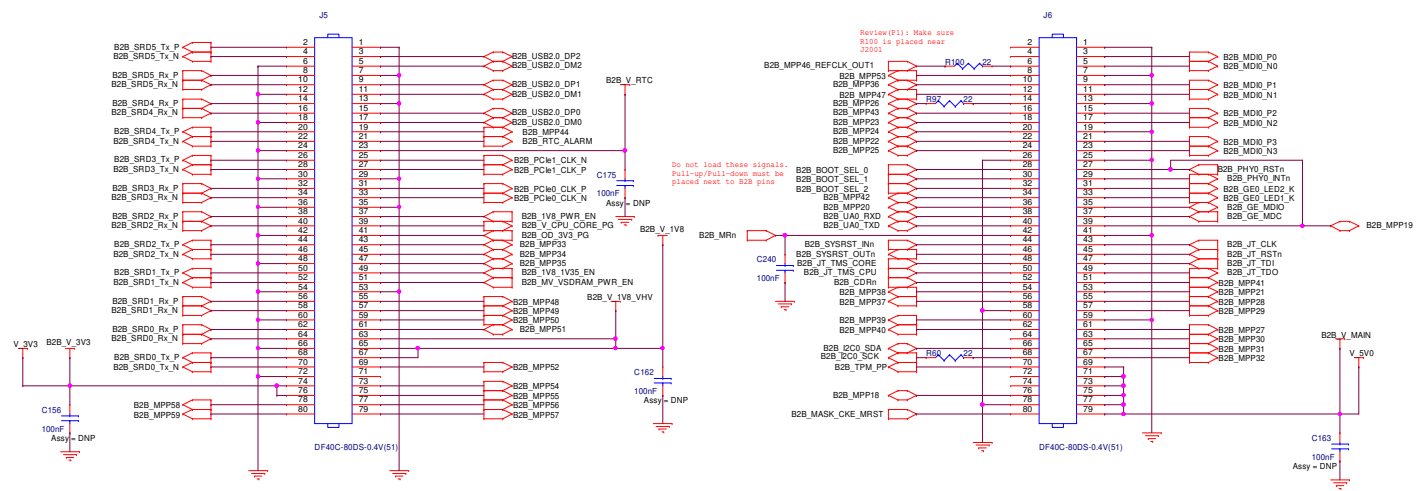


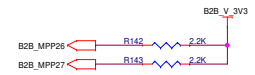
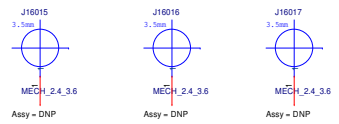
To Extract BOM:

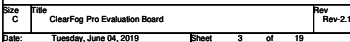
Item\tQuantity\tAssemblyOption\tPart\tPCB Footprint\tDescription\tDataSheet\tManufacturer\tManufacturer P/N\tSolidRun P/N\tReference
{Item}\t{Quantity}\t{ASSY}\t{Value}\t{PCB Footprint}\t{DESCRIPTION}\t{Datasheet}\t{Manufacturer}\t{Manufacturer P/N}\t{SolidRun P/N}\t{Reference}

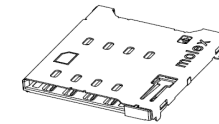




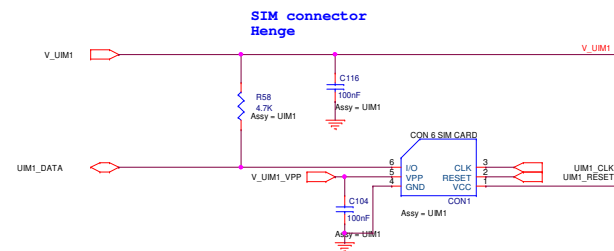
Three mechanical holes for the MicroSom

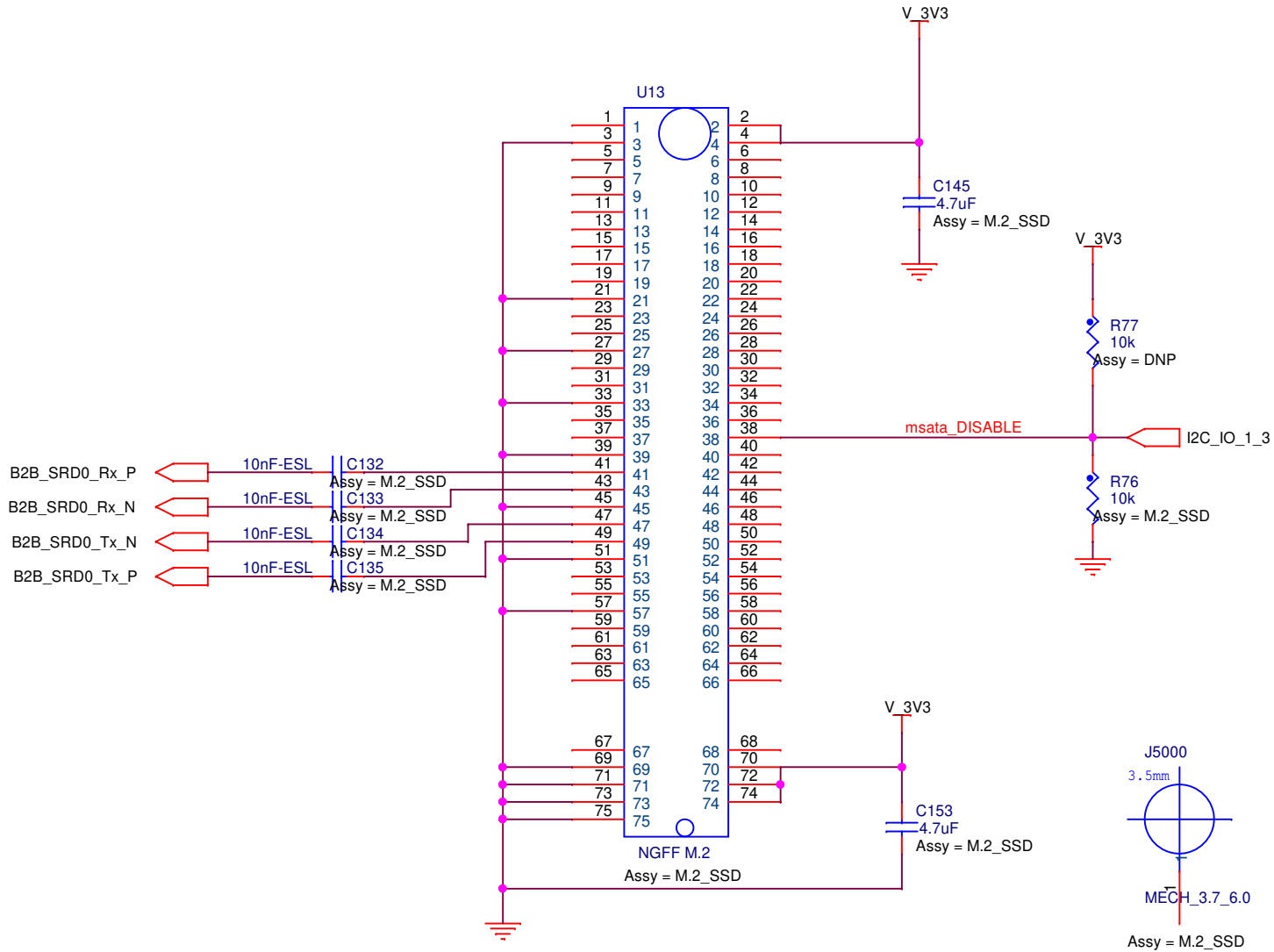






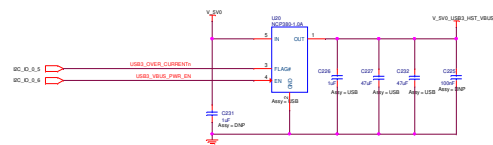
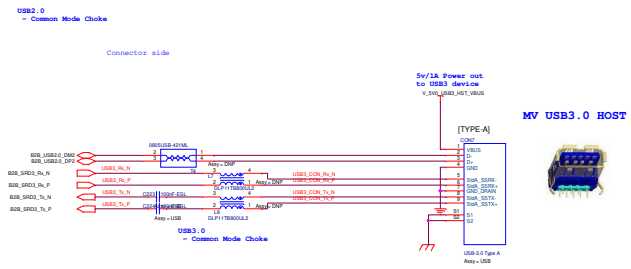
[SIM CARD PIN-MAP]	
PIN NO.	DESCRIPTION
#1	Vcc(Supply V)
#2	RTS(Reset)
#3	CLK(Clock)
#4	Reserved
#5	GND
#6	Vpp(Program V)
#7	I/O
#8	Reserved
G1~G6	GND
Detect	Card Detector
Switch	Common/GND
Card Insertion Condition	DETECT SWITCH
Without Card	Open (OFF)
Card Insertion	Close (ON)



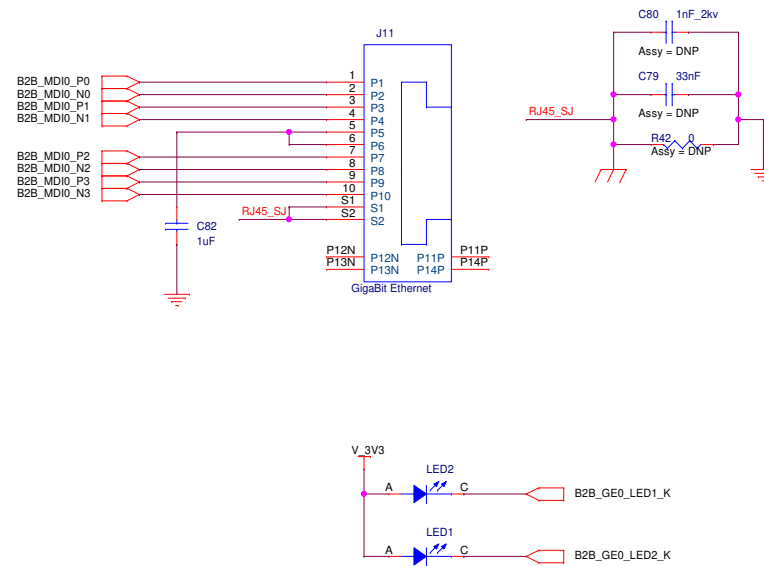


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Size	Title	Rev
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GE0: RJ45 Connector

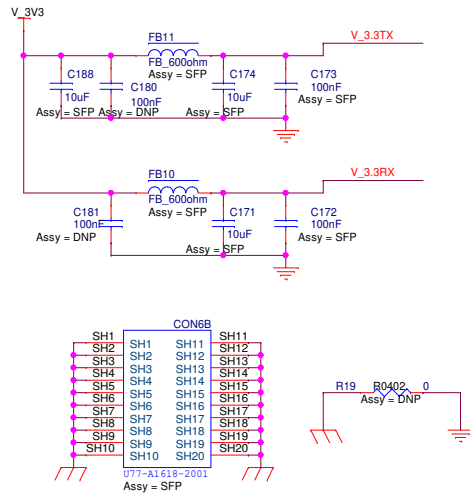


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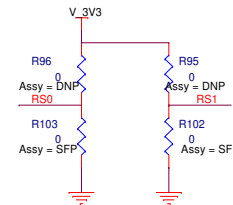
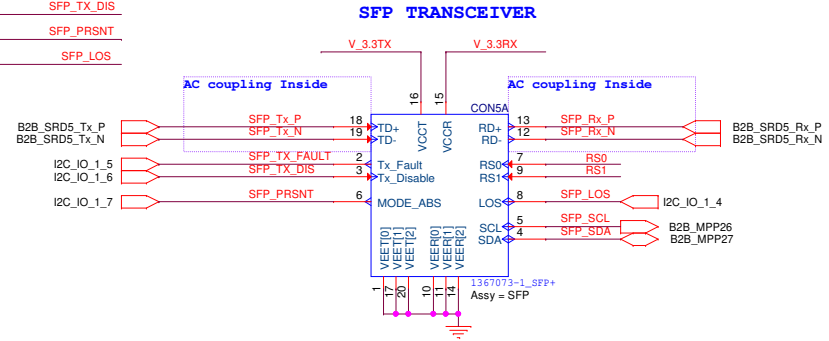
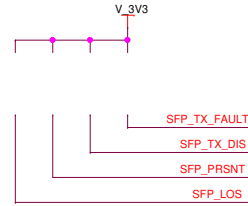
Size	Title	Rev
B	ClearFog Pro Evaluation Board	Rev-2.1
Date:	Wednesday, October 28, 2015	Sheet 8 of 19

SFP + defines maximum current withdraw from V_3.3TX and V_3.3RX as 300mA each.

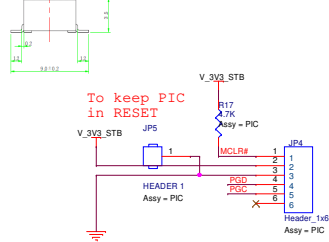
SFP TRANSCEIVER Power



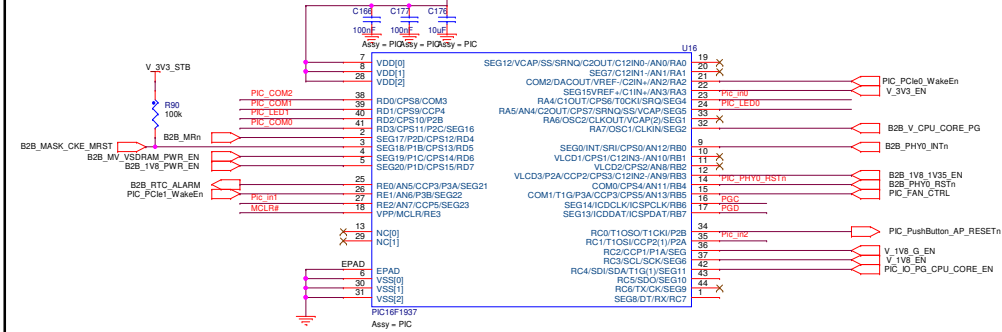
Replaced/Removed pullups with I2C_IO expander's pullups.



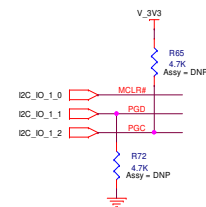
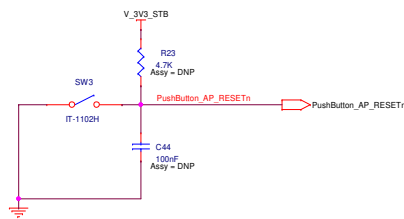
ICSP Header



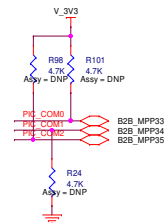
PIC16F1937



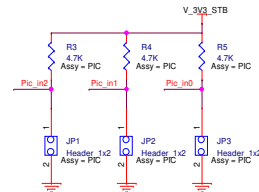
AP Reset Switch (GPIO)



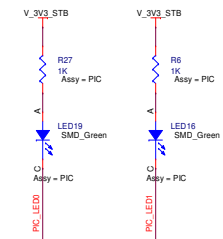
COM with MV Device



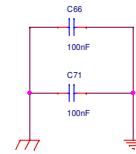
For SW Configuration Usage



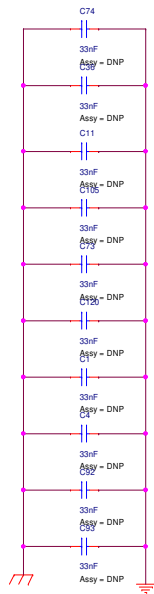
LEDs



Bypass capacitors for MDIO
passing underneath GNDC



Bypass capacitors between GNDC and GND

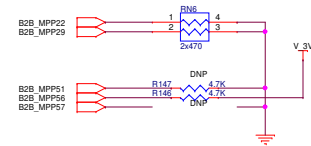


B2B_SYSRST_INn B2B_SYSRST_OUTn

Carrier DC-DC PGOOD Signals will enable CPU DC-DC
on uSom. Signal is pulled up on uSom.

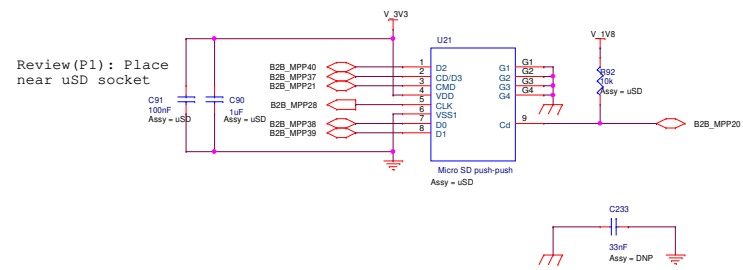
V_5V0_PG B2B_OD_3V3_PG
V_3V3_PG PIC_IO_PG_CPU_CORE_EN
V_1V8_PG

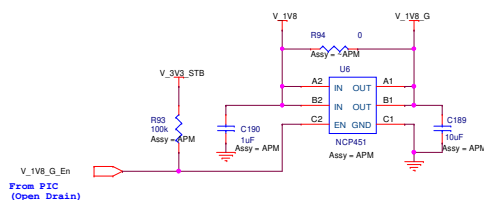
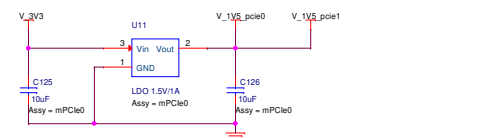
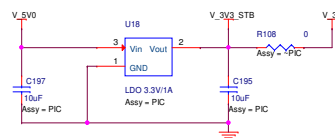
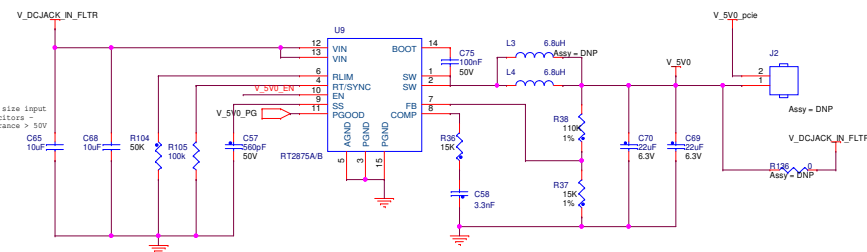
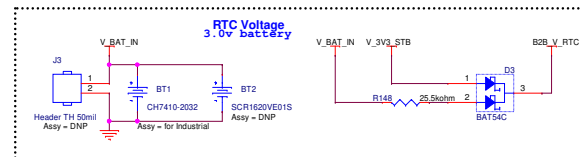
B2B_1V8_1V35_EN R89 B2B_V_MARn
4.7K



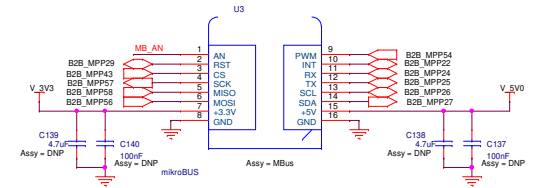
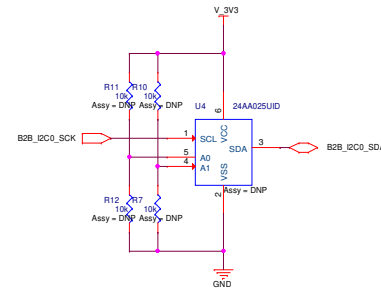
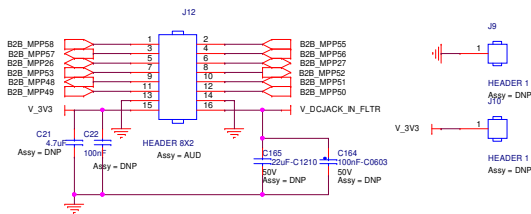
PushButton_AP_RESETn PIC_PushButton_AP_RESETn
FAN_CTRL PIC_FAN_CTRL
R145 R146
Assy = PIC

FAN_CTRL B2B_MPP35
PushButton_AP_RESETn B2B_MPP34
R144
Assy = PIC

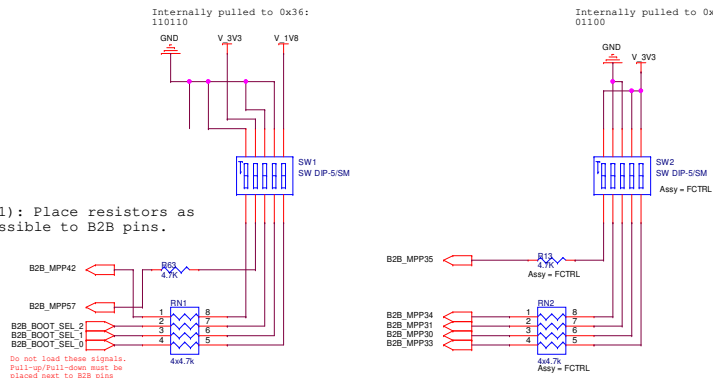




SLIC TDM Module connectors



Layout (P1): Place resistors as close possible to B2B pins.



PART NO. XX X XX

Device Address Options Temperature Range Package

Device: MCP3021T: 10-Bit 2-Wire Serial A/D Converter (Tape and Reel)

Temperature Range: E = -40°C to +125°C

Address Options:

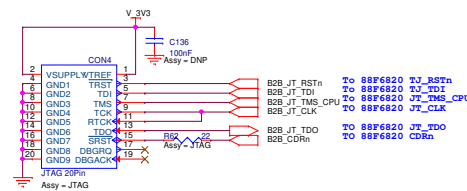
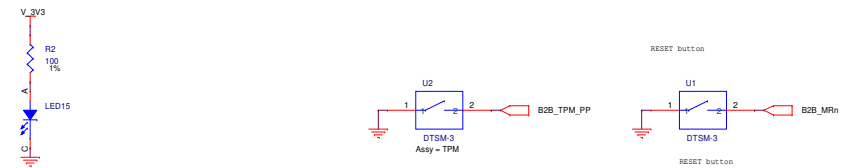
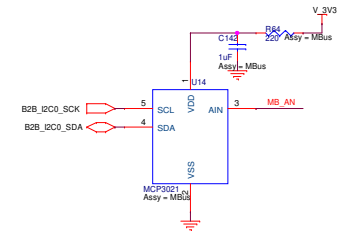
XX	A2	A1	A0
A0 = 0	0	0	0
A1 = 0	0	0	1
A2 = 0	0	1	0
A3 = 0	0	1	1
A4 = 1	0	0	0
A5 = 1	0	0	1
A6 = 1	0	1	0
A7 = 1	0	1	1

* Default option. Contact Microchip factory for other address options.

Package: OT = SOT-23, 5-lead (Tape and Reel)

Examples:

- MCP3021A0T-EJOT: Extended, A0 Address, Tape and Reel
- MCP3021A1T-EJOT: Extended, A1 Address, Tape and Reel
- MCP3021A2T-EJOT: Extended, A2 Address, Tape and Reel
- MCP3021A3T-EJOT: Extended, A3 Address, Tape and Reel
- MCP3021A4T-EJOT: Extended, A4 Address, Tape and Reel
- MCP3021A5T-EJOT: Extended, A5 Address, Tape and Reel
- MCP3021A6T-EJOT: Extended, A6 Address, Tape and Reel
- MCP3021A7T-EJOT: Extended, A7 Address, Tape and Reel

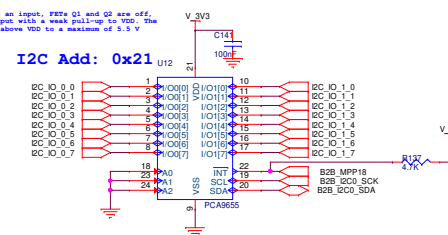


PCA9555 16-bit I2C and SMBus I/O port with interrupt 5 V tolerant I/Os

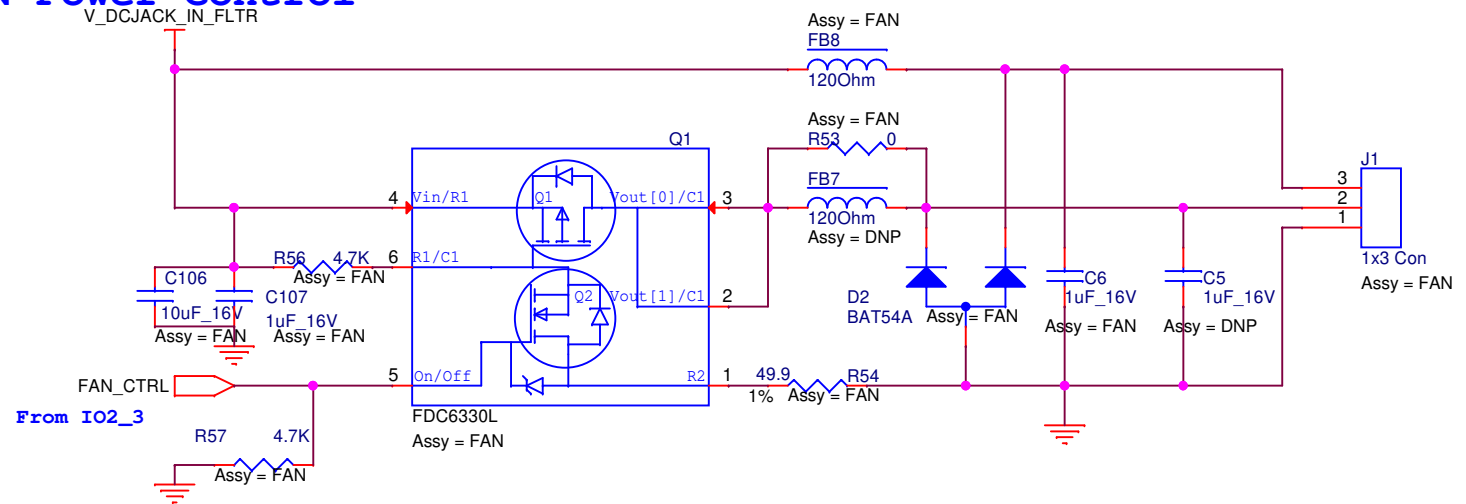
I/O port: When an I/O is configured as an input, PEXs Q1 and Q2 are off, creating a high impedance input with a weak pull-up to VDD. The input voltage may be raised above VDD to a maximum of 5.5 V.

I/O Table

I/O	Signal	Direction
IO_0.0	I2C_I0_0.0	Input
IO_0.1	I2C_I0_0.1	Input
IO_0.2	I2C_I0_0.2	Input
IO_0.3	I2C_I0_0.3	Input
IO_0.4	I2C_I0_0.4	Input
IO_0.5	I2C_I0_0.5	Input
IO_0.6	I2C_I0_0.6	Input
IO_0.7	I2C_I0_0.7	Input
IO_1.0	I2C_I0_1.0	Input
IO_1.1	I2C_I0_1.1	Input
IO_1.2	I2C_I0_1.2	Input
IO_1.3	I2C_I0_1.3	Input
IO_1.4	I2C_I0_1.4	Input
IO_1.5	I2C_I0_1.5	Input
IO_1.6	I2C_I0_1.6	Input
IO_1.7	I2C_I0_1.7	Input



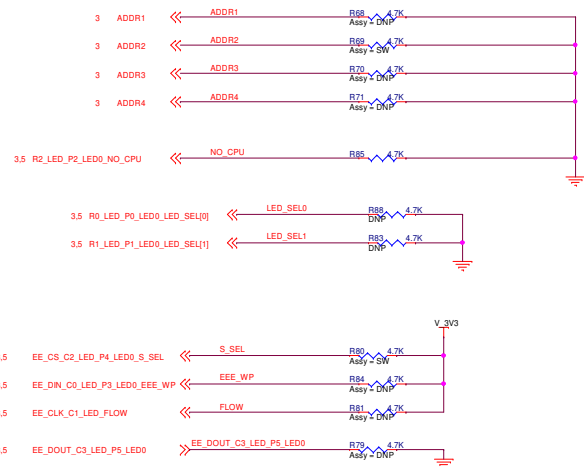
FAN Power Control



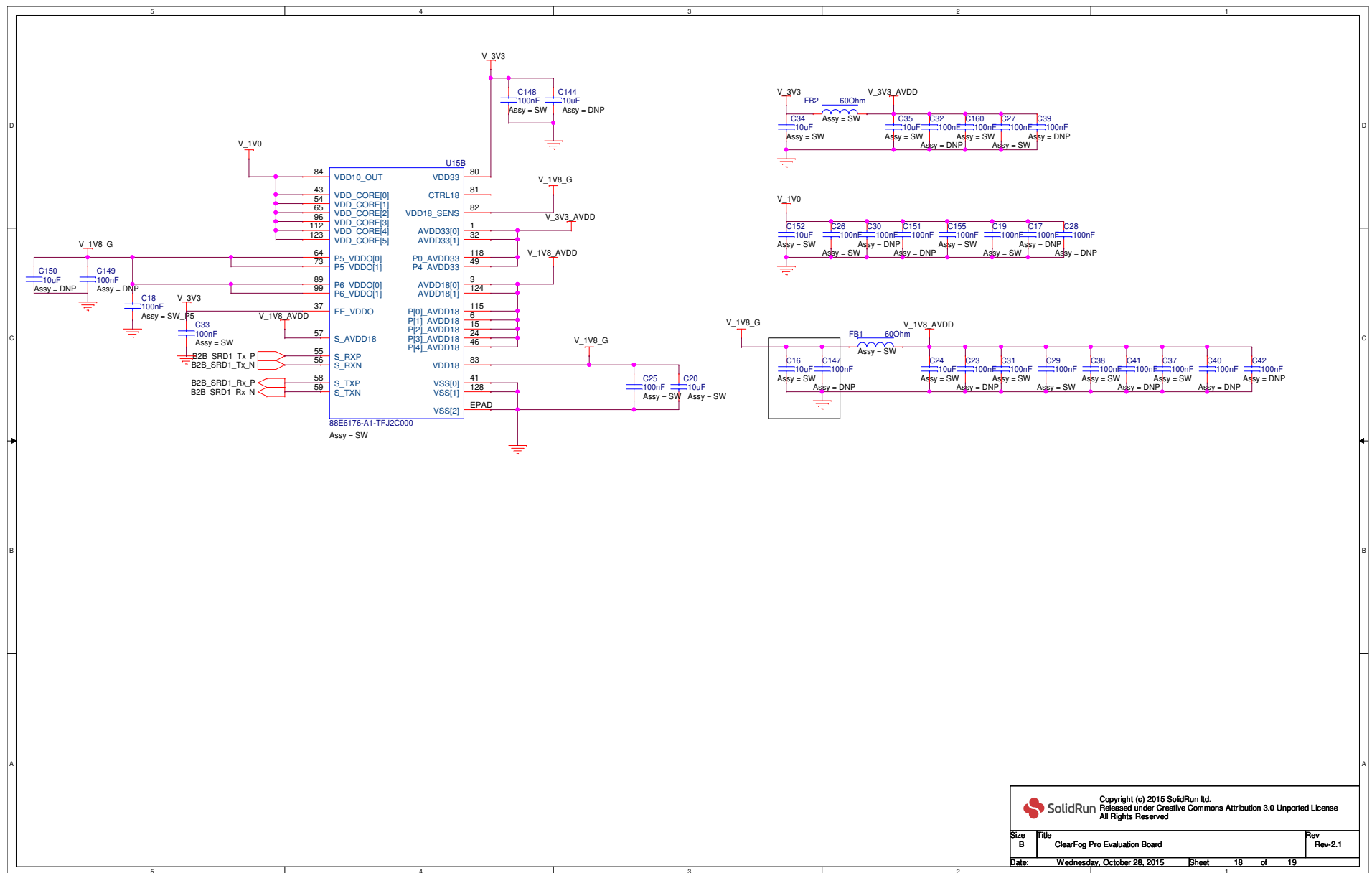
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Size A	Title ClearFog Pro Evaluation Board	Rev Rev-2.1
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ADDR0 = alway 0x0
SMI ADDRESS is the inverted value = 0x4



Pin	Name	Functionality	Default	Jumper/ DPR
35	NO_CPU	CPU ATTACHED	PU	PD.NC
34	LED_SEL[1]	LED Functionality	PU	PD.NC
33	LED_SEL[0]	LED Functionality	PU	PD.NC
39	S_SEL	Connect serdes to port 4 or 5	PD	PU
38	FLOW	Advertise auto-neg flow control	PD	PU
36	EEE_WP	Enable energy efficient Ethernet	PD	PU.NC
70	P5_VDDOS[0]	Port 5 power rail select	PU	PD
66	P5_VDDOS[1]	Port 5 power rail select	PU	PU
67,68,69	P5_OUTD[2:0]	0x7 = RGMII	PU	No option
94	P6_VDDOS[0]	Port 6 power rail select	PU	PD
90	P6_VDDOS[1]	Port 6 power rail select	PU	PU
91,92,93	P6_OUTD[2:0]	0x7 = RGMII	PU	No option
85,86,87,88	ADDR[4:1]n	SMI ADDRESS	PU	0x2



PORT-1 MDI I/F

P1_MDIP_0
P1_MDIN_0
P1_MDIP_1
P1_MDIN_1
P1_MDIP_2
P1_MDIN_2
P1_MDIP_3
P1_MDIN_3

PORT-0 MDI I/F

P0_MDIP_0
P0_MDIN_0
P0_MDIP_1
P0_MDIN_1
P0_MDIP_2
P0_MDIN_2
P0_MDIP_3
P0_MDIN_3

PORT-3 MDI I/F

P3_MDIP_0
P3_MDIN_0
P3_MDIP_1
P3_MDIN_1
P3_MDIP_2
P3_MDIN_2
P3_MDIP_3
P3_MDIN_3

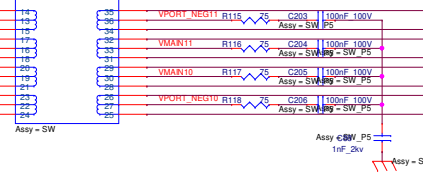
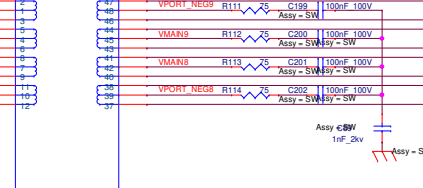
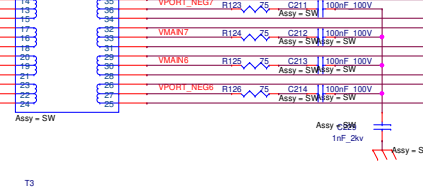
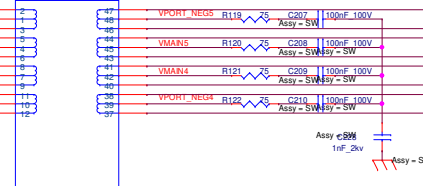
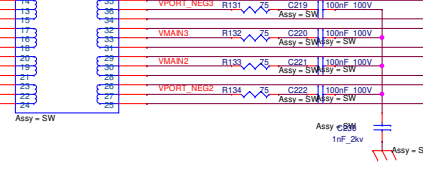
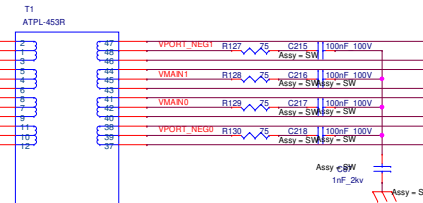
PORT-2 MDI I/F

P2_MDIP_0
P2_MDIN_0
P2_MDIP_1
P2_MDIN_1
P2_MDIP_2
P2_MDIN_2
P2_MDIP_3
P2_MDIN_3

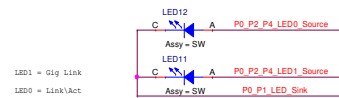
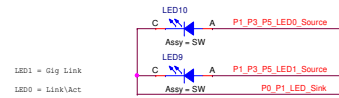
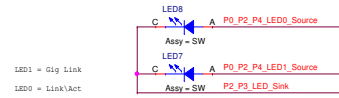
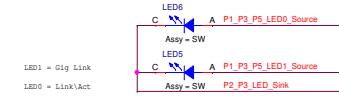
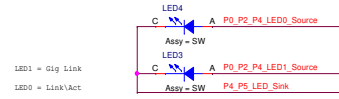
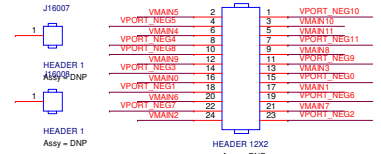
PORT-4 MDI I/F

P5_MDIP_0
P5_MDIN_0
P5_MDIP_1
P5_MDIN_1
P5_MDIP_2
P5_MDIN_2
P5_MDIP_3
P5_MDIN_3

P4_MDIP_0
P4_MDIN_0
P4_MDIP_1
P4_MDIN_1
P4_MDIP_2
P4_MDIN_2
P4_MDIP_3
P4_MDIN_3



PoE Module connector, including two mechanical pins



R2_LED_P2_LED0_NO_CPU
R1_LED_P1_LED0_LED_SEL[1]
R0_LED_P0_LED0_LED_SEL[0]

P1_P3_P5_LED1_Source
P0_P2_P4_LED1_Source
P1_P3_P5_LED0_Source
P0_P2_P4_LED0_Source

LED	Port 0 LED 0	Port 1 LED 0	Port 2 LED 0	Port 3 LED 0
R0_LED	Port 0 LED 0	Port 1 LED 0	Port 2 LED 0	Port 3 LED 0
R1_LED	Port 0 LED 1	Port 1 LED 1	Port 2 LED 1	Port 3 LED 1
R2_LED	Port 0 LED 2	Port 1 LED 2	Port 2 LED 2	Port 3 LED 2