


ETH IC Evaluation Board (Salinas)

Rev 1.1



QuickLogic Headquarters

1277 Orleans Drive, Sunnyvale, CA 94089-1138

USA

Tel:(408) 990-4000

www.quicklogic.com

Fax:(408) 990-4040

Title

ETH IC Evaluation Board

Size

B

Document Number

<Doc>

Rev

1.1

Date:

Wednesday, September 02, 2020

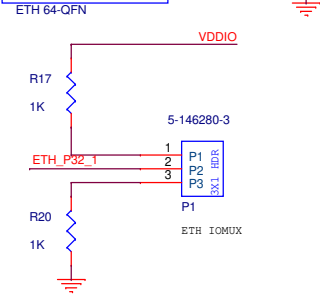
Sheet

1

of

9

U1			
PAD_CAM_HSYNC	1	ETH_P1	
PAD_SPIM_SDOIO	2	ETH_P2	
PAD_SPIM_SDOIO	3	ETH_P3	
PAD_SPIM_SDOIO	4	ETH_P4	
PAD_SPIM_SDOIO	5	ETH_P5	
PAD_SPIM_SDOIO	6	ETH_P6	
PAD_SPIM_CSNO	7	ETH_P7	
PAD_SPIM_CSNO	8	ETH_P8	
PAD_SPIM_SCK	9	ETH_P9	
PAD_UART_RX	10	ETH_P10	
PAD_UART_TX	11	ETH_P11	
PAD_CAM_PCLK	12	ETH_P12	
VDD_FPGA0	13	ETH_P13	
VDDIO0	14	ETH_P14	
PAD_CAM_VSYNC	15	ETH_P15	
NB	16	ETH_P16	
PB	17	ETH_P17	
PAD_HYPER_CK	18	ETH_P18	
PAD_JTAG_TCK	19	ETH_P19	
PAD_JTAG_TDI	20	ETH_P20	
PAD_JTAG_TDO	21	ETH_P21	
PAD_JTAG_TMS	22	ETH_P22	
PAD_JTAG_TRST	23	ETH_P23	
PAD_FPGA_GPIO36	24	ETH_P24	
VDD0	25	ETH_P25	
VDDIO1	26	ETH_P26	
VDD_FPGA1	27	ETH_P27	
PAD_FPGA_GPIO37	28	ETH_P28	
PAD_FPGA_GPIO38	29	ETH_P29	
PAD_FPGA_GPIO39	30	ETH_P30	
PAD_FPGA_GPIO40	31	ETH_P31	
PAD_STM	32	ETH_P32	
PAD_IOMUX	33	ETH_P33	
PAD_HYPER_DQ0	34	ETH_P34	
PAD_HYPER_DQ1	35	ETH_P35	
PAD_HYPER_DQ2	36	ETH_P36	
PAD_HYPER_DQ3	37	ETH_P37	
PAD_HYPER_DQ4	38	ETH_P38	
PAD_HYPER_DQ5	39	ETH_P39	
PAD_HYPER_DQ6	40	ETH_P40	
PAD_HYPER_DQ7	41	ETH_P41	
PAD_HYPER_CSNO	42	ETH_P42	
PAD_HYPER_CSNO	43	ETH_P43	
PAD_HYPER_CSNO	44	ETH_P44	
PAD_HYPER_CSNO	45	ETH_P45	
VDD_FPGA2	46	ETH_P46	
PAD_HYPER_CKN	47	ETH_P47	
VDD_FPGA3	48	ETH_P48	
VDD_FPGA4	49	ETH_P49	
PAD_CAM_DATA0	50	ETH_P50	
PAD_CAM_DATA1	51	ETH_P51	
PAD_CAM_DATA2	52	ETH_P52	
PAD_CAM_DATA3	53	ETH_P53	
PAD_CAM_DATA4	54	ETH_P54	
PAD_CAM_DATA5	55	ETH_P55	
PAD_CAM_DATA6	56	ETH_P56	
PAD_CAM_DATA7	57	ETH_P57	
VDD1	58	ETH_P58	
VDDIO3	59	ETH_P59	
VDD_FPGA5	60	ETH_P60	
PAD_I2C0_SDA	61	ETH_P61	
PAD_I2C0_SCL	62	ETH_P62	
PAD_RESET_N	63	ETH_P63	
PAD_XTAL_IN	64	ETH_P64	
PAD_MLATCH	65		
GND_1	66		
GND_2	67		
GND_3	68		
GND_4			



J1			
ETH_P1	1	ETH_P1_1	ETH_P1_1
ETH_P2	2	ETH_P2_1	ETH_P2_1
ETH_P3	3	ETH_P3_1	ETH_P3_1
ETH_P4	4	ETH_P4_1	ETH_P4_1
ETH_P5	5	ETH_P5_1	ETH_P5_1
ETH_P6	6	ETH_P6_1	ETH_P6_1
ETH_P7	7	ETH_P7_1	ETH_P7_1
ETH_P8	8	ETH_P8_1	ETH_P8_1
ETH_P9	9	ETH_P9_1	ETH_P9_1
ETH_P10	10	ETH_P10_1	ETH_P10_1
ETH_P11	11	ETH_P11_1	ETH_P11_1
ETH_P12	12	ETH_P12_1	ETH_P12_1
ETH_P13	13	ETH_P13_1	ETH_P13_1
ETH_P14	14	ETH_P14_1	ETH_P14_1
ETH_P15	15	ETH_P15_1	ETH_P15_1
ETH_P16	16	ETH_P16_1	ETH_P16_1

68602-132HLF

J2			
ETH_P17	1	ETH_P17_1	ETH_P17_1
ETH_P18	2	ETH_P18_1	ETH_P18_1
ETH_P19	3	ETH_P19_1	ETH_P19_1
ETH_P20	4	ETH_P20_1	ETH_P20_1
ETH_P21	5	ETH_P21_1	ETH_P21_1
ETH_P22	6	ETH_P22_1	ETH_P22_1
ETH_P23	7	ETH_P23_1	ETH_P23_1
ETH_P24	8	ETH_P24_1	ETH_P24_1
ETH_P25	9	ETH_P25_1	ETH_P25_1
ETH_P26	10	ETH_P26_1	ETH_P26_1
ETH_P27	11	ETH_P27_1	ETH_P27_1
ETH_P28	12	ETH_P28_1	ETH_P28_1
ETH_P29	13	ETH_P29_1	ETH_P29_1
ETH_P30	14	ETH_P30_1	ETH_P30_1
ETH_P31	15	ETH_P31_1	ETH_P31_1
ETH_P32	16	ETH_P32_1	ETH_P32_1

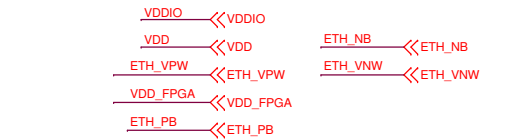
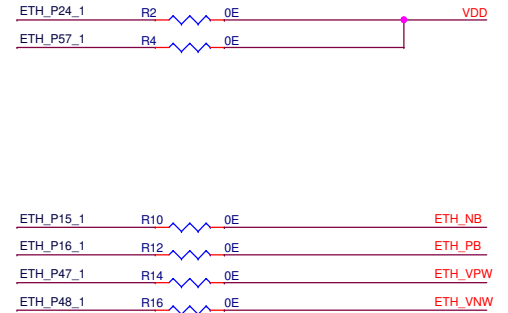
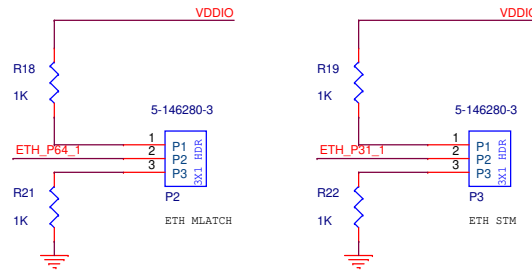
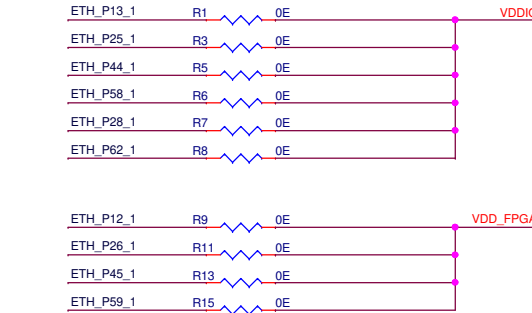
68602-132HLF

J3			
ETH_P33	1	ETH_P33_1	ETH_P33_1
ETH_P34	2	ETH_P34_1	ETH_P34_1
ETH_P35	3	ETH_P35_1	ETH_P35_1
ETH_P36	4	ETH_P36_1	ETH_P36_1
ETH_P37	5	ETH_P37_1	ETH_P37_1
ETH_P38	6	ETH_P38_1	ETH_P38_1
ETH_P39	7	ETH_P39_1	ETH_P39_1
ETH_P40	8	ETH_P40_1	ETH_P40_1
ETH_P41	9	ETH_P41_1	ETH_P41_1
ETH_P42	10	ETH_P42_1	ETH_P42_1
ETH_P43	11	ETH_P43_1	ETH_P43_1
ETH_P44	12	ETH_P44_1	ETH_P44_1
ETH_P45	13	ETH_P45_1	ETH_P45_1
ETH_P46	14	ETH_P46_1	ETH_P46_1
ETH_P47	15	ETH_P47_1	ETH_P47_1
ETH_P48	16	ETH_P48_1	ETH_P48_1

68602-132HLF

J4			
ETH_P49	1	ETH_P49_1	ETH_P49_1
ETH_P50	2	ETH_P50_1	ETH_P50_1
ETH_P51	3	ETH_P51_1	ETH_P51_1
ETH_P52	4	ETH_P52_1	ETH_P52_1
ETH_P53	5	ETH_P53_1	ETH_P53_1
ETH_P54	6	ETH_P54_1	ETH_P54_1
ETH_P55	7	ETH_P55_1	ETH_P55_1
ETH_P56	8	ETH_P56_1	ETH_P56_1
ETH_P57	9	ETH_P57_1	ETH_P57_1
ETH_P58	10	ETH_P58_1	ETH_P58_1
ETH_P59	11	ETH_P59_1	ETH_P59_1
ETH_P60	12	ETH_P60_1	ETH_P60_1
ETH_P61	13	ETH_P61_1	ETH_P61_1
ETH_P62	14	ETH_P62_1	ETH_P62_1
ETH_P63	15	ETH_P63_1	ETH_P63_1
ETH_P64	16	ETH_P64_1	ETH_P64_1

68602-132HLF



QuickLogic Headquarters
1277 Orleans Drive, Sunnyvale, CA 94089-1138
USA
Tel:(408) 990-4000 Fax:(408) 990-4040

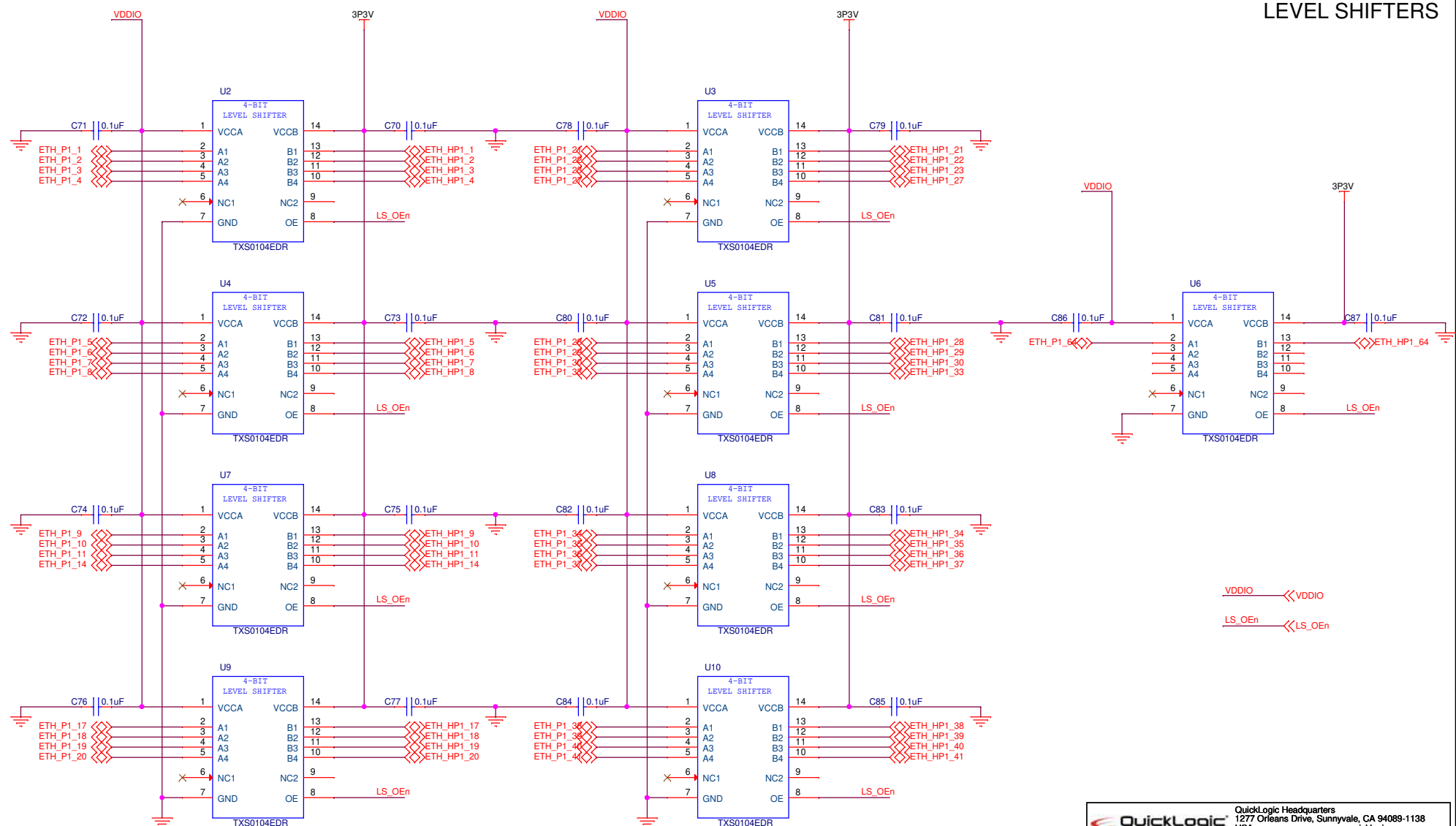
Title

ETH IC Evaluation Board

Size	Document Number	Rev
Custom<Doc>		1.0

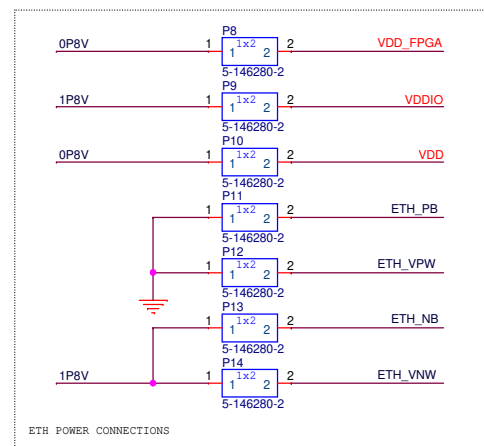
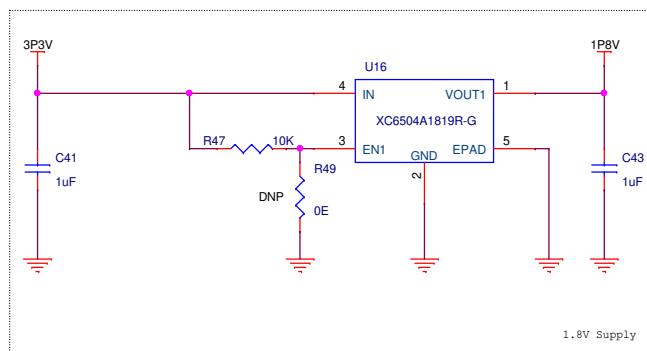
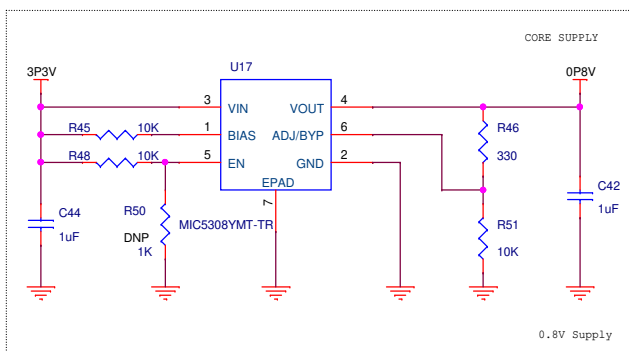
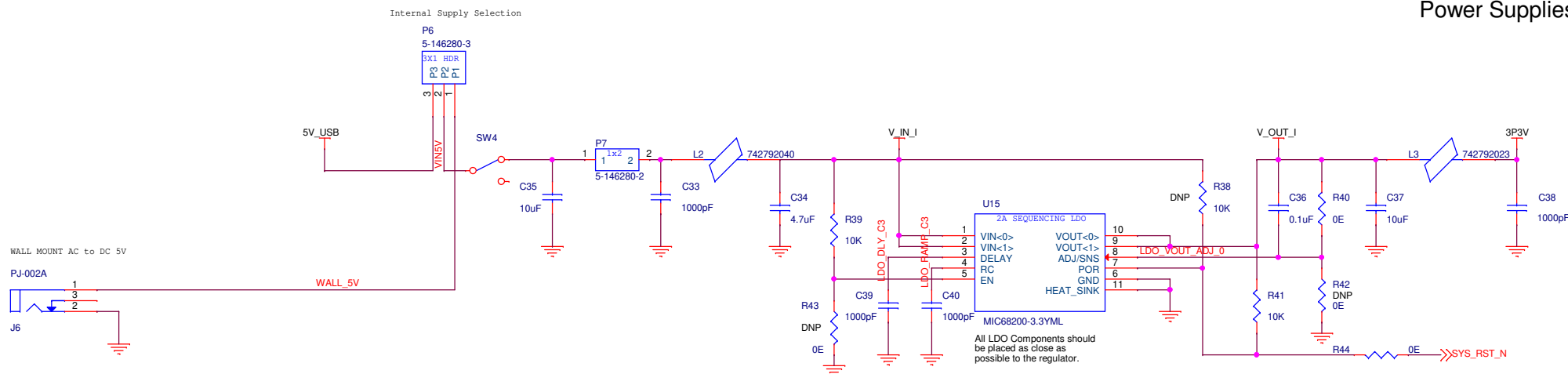
Date: Wednesday, September 02, 2020 Sheet 2 of 9


LEVEL SHIFTERS

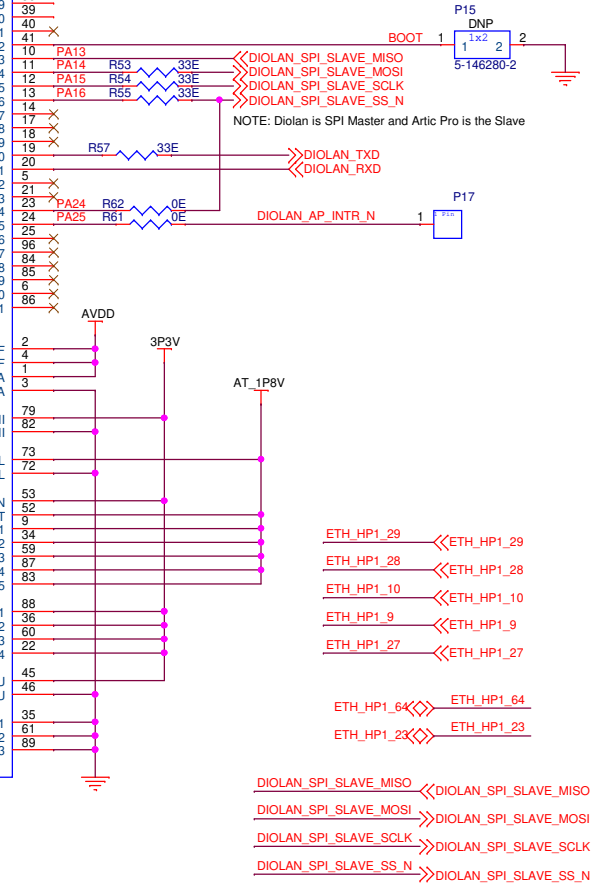
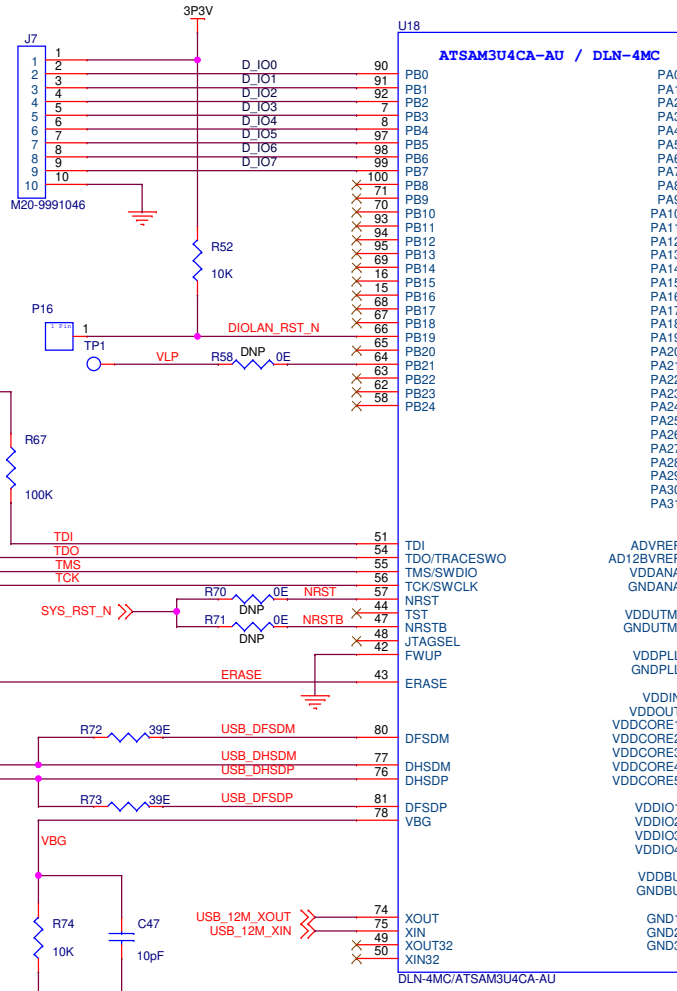
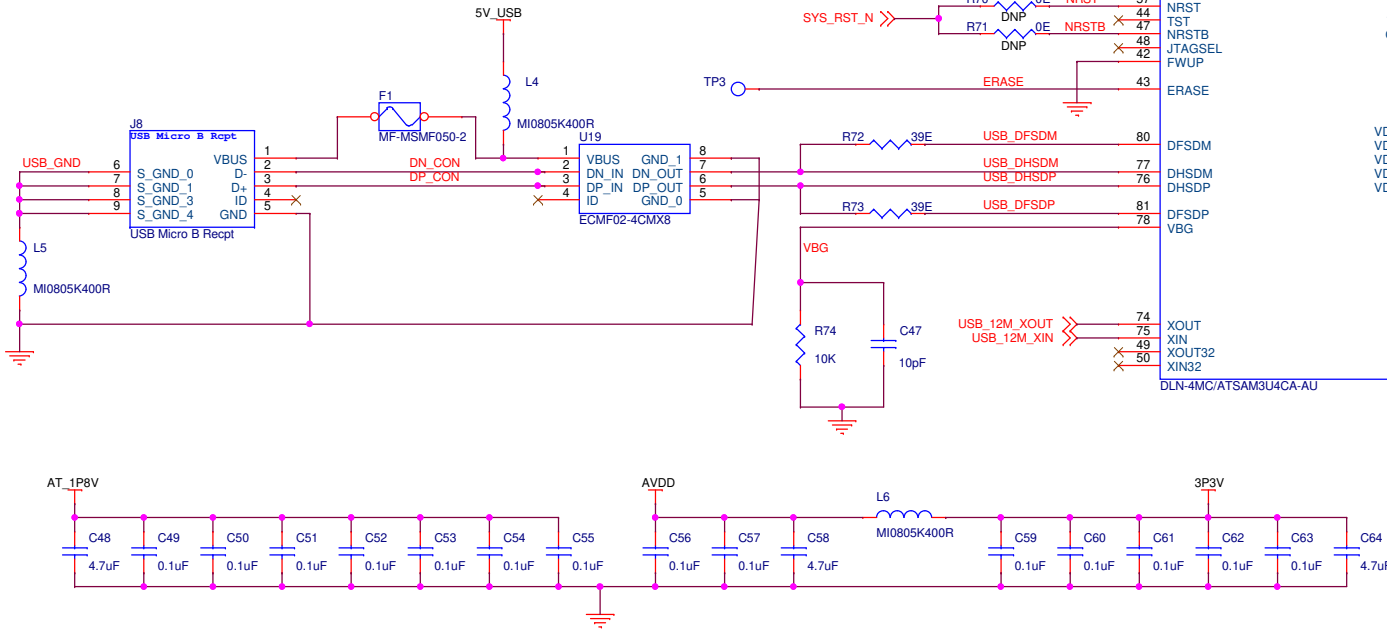
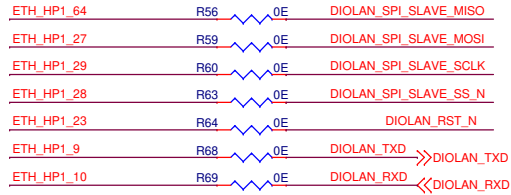
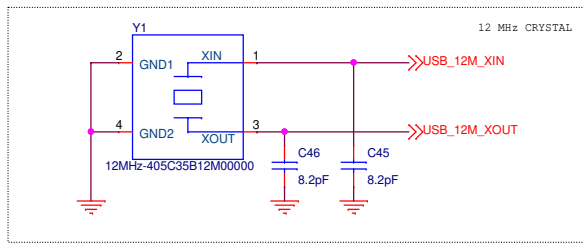


QuickLogic QuickLogic Headquarters 1277 Orleans Drive, Sunnyvale, CA 94089-1138 USA Tel:(408) 990-4000 www.quicklogic.com Fax:(408) 990-4040		
Title ETH Evaluation Board		
Size B	Document Number <Doc>	Rev 1.0
Date: Wednesday, September 02, 2020 Sheet 3 of 9		

Power Supplies



		QuickLogic Headquarters 1277 Orleans Drive, Sunnyvale, CA 94089-1138 USA www.quicklogic.com Tel:(408) 990-4000 Fax:(408) 990-4040	
Title ETH IC Evaluation Board			
Size B	Document Number <Doc>		Rev 1.0
Date:	Wednesday, September 02, 2020	Sheet	5 of 9

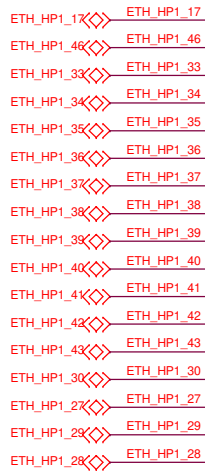


QuickLogic Headquarters
1277 Orleans Drive, Sunnyvale, CA 94089-1138
USA
Tel:(408) 990-4000 Fax:(408) 990-4040

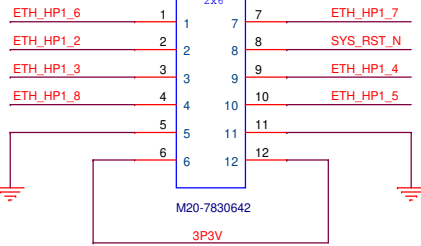
Title ETH Evaluation Board		
Size B	Document Number <Doc>	Rev 1.0
Date: Wednesday, September 02, 2020	Sheet 6	of 9

USB to SPI Converter (DIOLAN)

EXPANSION HEADERS



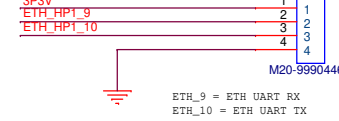
SPI MASTER (PMOD FLASH)



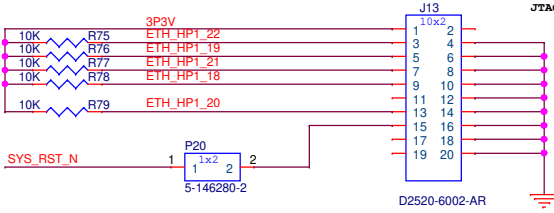
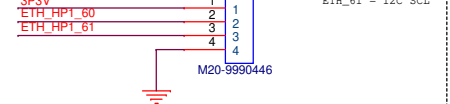
ETH_6 = PMOD CSn (1)
ETH_2 = PMOD SI/SDIO0 (2)
ETH_3 = PMOD SO/SDIO1 (3)
ETH_8 = PMOD SCK (4)
ETH_7 = PMOD NC/CSn1 (7)
SYS_RST_N = PMOD RSTn (8)
ETH_4 = PMOD WP/SDIO2 (9)
ETH_5 = PMOD HLC/SDIO3 (10)



UART



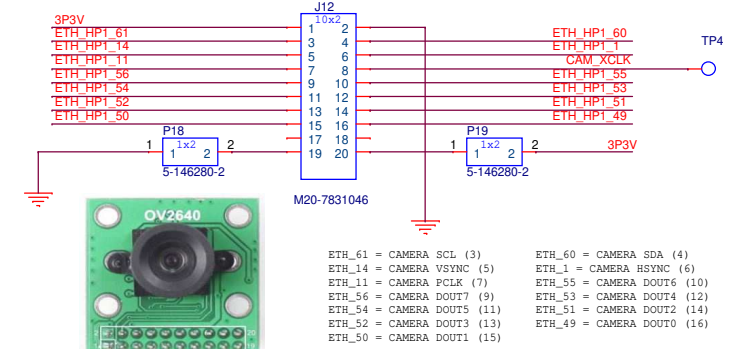
I2C



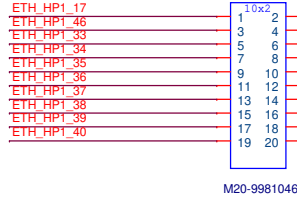
JTAG

ETH_22 = JTAG RSTn (3)
ETH_19 = JTAG TDI (5)
ETH_21 = JTAG TMS (7)
ETH_18 = JTAG TCK (9)
ETH_20 = JTAG TDO (13)

Vtref	1	2	NC
nTRST	3	4	GND
TDI	5	6	GND
TMS	7	8	GND
TCK	9	10	GND
RTCK	11	12	GND
TDO	13	14	GND*
RESET	15	16	GND*
DBGRQ	17	18	GND*
SV-Supply	19	20	GND*

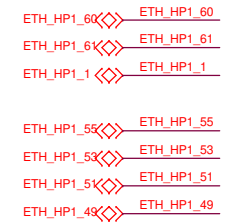


ETH_17 = HYPER CK
ETH_46 = HYPER CKn
ETH_33 = HYPER DQ0
ETH_34 = HYPER DQ1
ETH_35 = HYPER DQ2
ETH_36 = HYPER DQ3
ETH_37 = HYPER DQ4
ETH_38 = HYPER DQ5
ETH_39 = HYPER DQ6
ETH_40 = HYPER DQ7

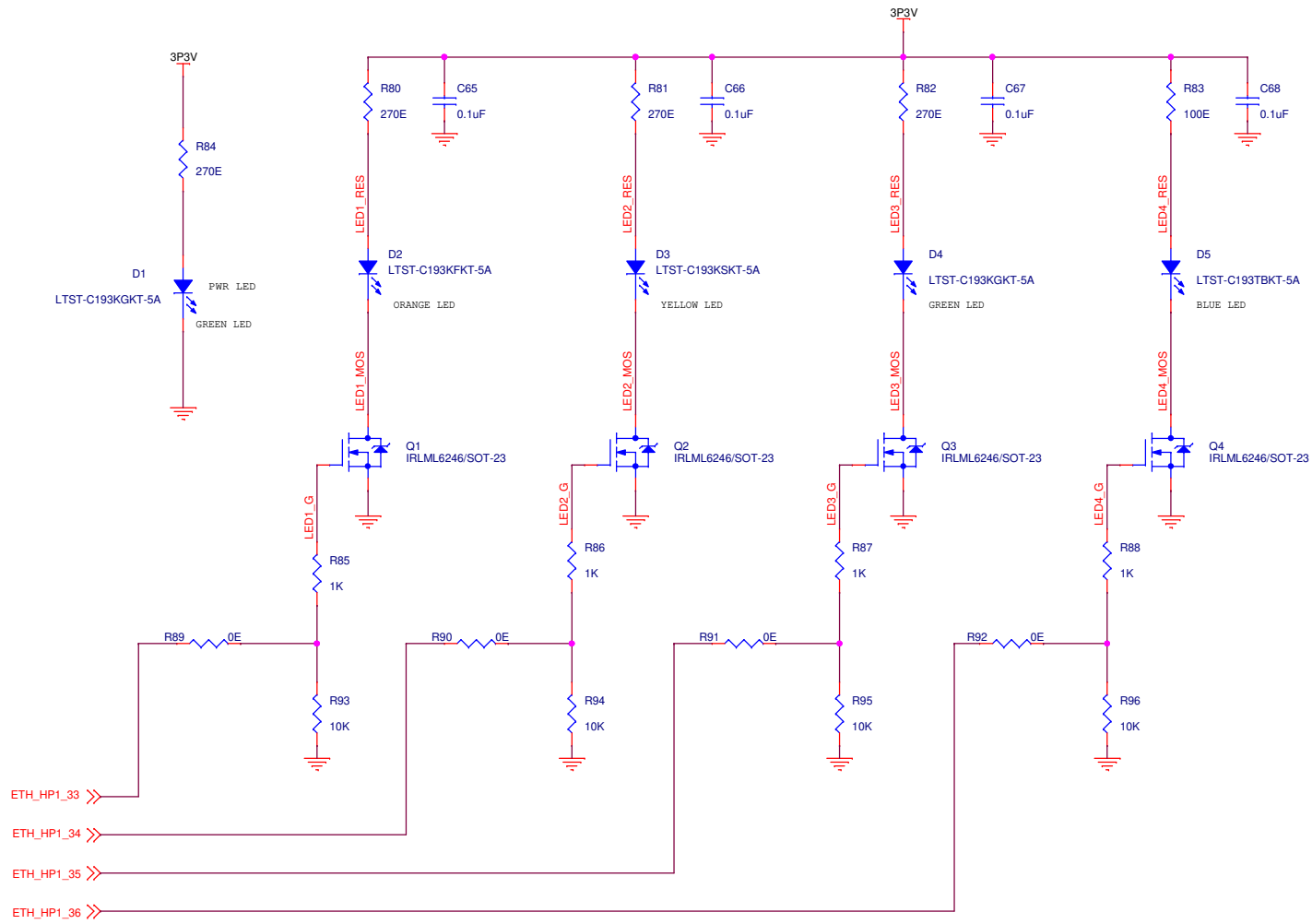


ETH_41 = HYPER CSn0
ETH_42 = HYPER CSn1
ETH_43 = HYPER RWDS

ETH_30 = SPIS MISO
ETH_27 = SPIS MOSI
ETH_29 = SPIS CLK
ETH_28 = SPIS SSn



		QuickLogic Headquarters 1277 Orleans Drive, Sunnyvale, CA 94089-1138 USA Tel: (408) 990-4000 Fax: (408) 990-4040	
Title ETH Evaluation Board			
Size B	Document Number <Doc>	Rev 1.0	
Date: Wednesday, September 02, 2020		Sheet 7	of 9



		QuickLogic Headquarters 1277 Orleans Drive, Sunnyvale, CA 94089-1138 USA Tel: (408) 990-4000 www.quicklogic.com Fax: (408) 990-4040	
		Title: ETH Evaluation Board	
Size B	Document Number <Doc>		Rev 1.0
Date: Wednesday, September 02, 2020		Sheet	8 of 9

