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UL = UnLoaded = normally not mounted component.

Default jumper settings are indicated in the schematic.
However, always check jumper positions on actual boards
since there is no guarantee that all jumpers are in default place.

Rev B1 Added interface to M.2 WiFi/BT boards.	
Rev A First release.	
	
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	ETH_TXP	1376408-SLOT_1.8V
	ETH_RXP	=J6-1
	ETH_TXN	=J6-2
	ETH_RXN	=J6-3
	ENET_3V3	=J6-4
		=J6-5
		=J6-6
	ETH_LED1	=J6-7
	ETH_LED2	=J6-8
	VBAT_IN	=J6-9
TP4	ALARM	=J6-10
TP5	RESET_IN	=J6-11
TP6	RESET_OUT	=J6-12
TP7	ETH-PHY-PD_CD	=J6-13
TP8	JTAG_DBGEN-JTAG_MOD	=J6-14
TP9	JTAG_TCK	=J6-15
TP10	JTAG_RTCK	=J6-16
TP11	JTAG_TRST	=J6-17
TP12	JTAG_TMS	=J6-18
TP13	JTAG_TDI	=J6-19
TP14	JTAG_TDO	=J6-20
TP15	VDD_ADC	=J6-21
TP16	VREF	=J6-22
TP17		=J6-23
TP18		=J6-24
TP19	GPI00-LCDIF_PWREN	=J6-25
TP20	GPI01	=J6-26
TP21	GPI02-LCDIF_CLK	=J6-27
TP22	GPI03-LCDIF_VSYNC	=J6-28
TP23	GPI04-LCDIF_ENABLE	=J6-29
TP24	GPI05-LCDIF_HSYNC	=J6-30
TP25	GPI06-LCDIF_D12	=J6-31
TP26	GPI07-LCDIF_D13	=J6-32
TP27	GPI08-LCDIF_D14	=J6-33
TP28	GPI09-LCDIF_D15	=J6-34
TP29	ISP_ENABLE	=J6-35
TP30	5V_USB_OTG	=J6-36
TP31		=J6-37
TP32		=J6-38
TP33	3V3_MAIN	=J6-39
TP34		=J6-40
	USB-B_DP	=J6-41
	USB-A_DP	=J6-42
	USB-B_DN	=J6-43
	USB-A_DN	=J6-44
TP36	GPI0_B0_15-BOOT_CFG2[3]-LCDIF_D11	=J6-45
TP37	GPI0_B0_10-BOOT_CFG1[0]-LCDIF_D0	=J6-46
TP38	GPI0_AD_B0_15-FLEXCAN2_RX-CANFD_RX	=J6-47
TP39	GPI0_AD_B0_14-FLEXCAN2_TX-CANFD_TX	=J6-48
TP40	GPI0_AD_B0_12-LPUART1_TX	=J6-49
TP41	GPI0_AD_B0_13-LPUART1_RX	=J6-50
TP42		=J6-51
TP43		=J6-52
TP44		=J6-53
TP45		=J6-54
TP46		=J6-55
TP47		=J6-56
TP48	GPI0_AD_B1_10-SAI1_RX_SYNC	=J6-57
TP49	GPI0_AD_B1_11-SAI1_RX_BCLK	=J6-58
TP50	GPI0_AD_B0_02-USB_OTG1_PWR	=J6-59
TP51	GPI0_AD_B0_03-USB_OTG1_OC	=J6-60
TP52	GPI0_AD_B0_01-USB_OTG1_ID	=J6-61
TP53	GPI0_AD_B0_00-USB_HOST_OC	=J6-62
TP54		=J6-63
TP55		=J6-64
TP56		=J6-65
TP57		=J6-66
TP58		=J6-67
TP59		=J6-68
TP60		=J6-69
TP61	GPI0_AD_B1_08-AUD_INT	=J6-70
TP62		=J6-71
TP63		=J6-72
TP64	GPI0_B1_12-SD_CD	=J6-73
TP65	GPI0_AD_B1_01-I2C1_SDA	=J6-74
TP66	GPI0_AD_B1_00-I2C1_SCL	=J6-75
TP67		=J6-76
TP68		=J6-77
TP69	R150 UL GPI0_SD_B0_01-SD1_CLK	=J6-78
TP70	GPI0_SD_B0_00-SD1_CMD	=J6-79
TP71	GPI0_AD_B0_05-BOOT_MODE1-FLASH_RST	=J6-80
TP72	GPI0_SD_B0_02-SD1_D0	=J6-81
TP73	R151 UL GPI0_SD_B0_03-SD1_D1	=J6-82
TP74	GPI0_SD_B0_04-SD1_D2	=J6-83
TP75	R152 UL GPI0_SD_B0_05-SD1_D3	=J6-84
TP76	NVCC_SD	=J6-85
TP77	GPI0_B1_15-LCD_B1_CTL-USB_HOST_PWR	=J6-86
TP78	GPI0_B1_14-SD_VSEL	=J6-87
TP79	GPI0_B0_09-BOOT_CFG1[5]-LCDIF_D5	=J6-88
TP80	GPI0_B0_10-BOOT_CFG1[6]-LCDIF_D6	=J6-89
TP81	GPI0_B0_11-BOOT_CFG1[7]-LCDIF_D7	=J6-90
TP82	GPI0_B0_12-BOOT_CFG2[0]-LCDIF_D8	=J6-91
TP83	GPI0_B0_13-BOOT_CFG2[1]-LCDIF_D9-SWO	=J6-92
TP84	GPI0_B0_14-BOOT_CFG2[2]-LCDIF_D10	=J6-93
TP85	GPI0_B0_05-BOOT_CFG1[1]-LCDIF_D1	=J6-94
TP86	GPI0_B0_06-BOOT_CFG1[2]-LCDIF_D2	=J6-95
TP87	GPI0_B0_07-BOOT_CFG1[3]-LCDIF_D3	=J6-96
TP88	GPI0_B0_08-BOOT_CFG1[4]-LCDIF_D4	=J6-97
TP89	5V_USB_HS	=J6-98
TP90		=J6-99
TP91	WDQG_B	=J6-100

IMX RT1052/1062	LPC2478/1788	LPC3250	LPC4088	LPC4357
ETH_TXP	ETH_TXP	ETH_TXP	ETH_TXP	ETH_TXP
ETH_RXP	ETH_RXP	ETH_RXP	ETH_RXP	ETH_RXP
ETH_TXN	ETH_TXN	ETH_TXN	ETH_TXN	ETH_TXN
ETH_RXN	ETH_RXN	ETH_RXN	ETH_RXN	ETH_RXN
ETH_VDD	ETH_VDD	ETH_VDD	ETH_VDD	ETH_VDD
ETH_GND	ETH_GND	ETH_GND	ETH_GND	ETH_GND
ETH_LED1	ETH_LED1	ETH_LED1	ETH_LED1	ETH_LED1
ETH_LED2	ETH_LED2	ETH_LED2	ETH_LED2	ETH_LED2
VBAT_IN	VBAT_IN	VBAT_IN	VBAT_IN	VBAT_IN
ALARM	ALARM	ONSW	ALARM	ALARM
RESET_IN	RESET_IN	RESET_IN	RESET_IN	RESET
RESET_OUT	RESET_OUT	RESET_OUT	RESET_OUT	RESET
ETH-PHY-PD_CD	ETH_PHY_PD/SD_CD	ETH_PHY_PD	(SD_CD)	PE_14
JTAG_DBGEN-P5.0	JTAG_DBGEN	P5.0	JTAG_DBGEN	JTAG_DBGEN
JTAG_TCK	JTAG_TCK	JTAG_TCK	TCK_SWDCLK	TCK_SWDCLK
JTAG_RTCK	JTAG_RTCK	JTAG_RTCK	P5.4	ADC7
JTAG_TRST	JTAG_TRST	JTAG_TRST	JTAG_TRST	JTAG_TRST
JTAG_TMS	JTAG_TMS	JTAG_TMS	TMS_SWDIOTMS	SWDIO
JTAG_TDI	JTAG_TDI	JTAG_TDI	JTAG_TDI	JTAG_TDI
JTAG_TDO	JTAG_TDO	JTAG_TDO	TDO_SWO	TDO_SWO
VDDA_ADC_3V3	V3A	VDDA	V3A	VDDA
VREF	VREF	NC	VREF	ADC6
VSSA	VSSA	VSSA	VSSA	VSSA
GND	GND	GND	GND	GND
GPI0_AD_B0_04	P2.0	GPO_10	P7.0	P7.0
	P2.1	GPO_12	P2.1	P7.0
GPI0_B0_00	P2.2	GPO_13	P2.2	P4.7
GPI0_B0_03	P2.3	GPO_15	P2.3	P4.5
GPI0_B0_01	P2.4	GPO_16	P2.4	P4.6
GPI0_B0_02	P2.5	GPO_18	P2.5	P7.6
GPI0_B1_00	P2.6	P0.2	P2.6	P8.7
GPI0_B1_01	P2.7	P0.3	P0.10	P8.6
GPI0_B1_02	P2.8	P0.4	P2.8	P8.5
GPI0_B1_03	P2.9	P0.5	P2.9	P8.4
ISP_ENABLE	P2.10	GPI_01	P2.10	ISP_EN
5V_USB_OTG	P2.11	U7_HCTS	P2.11	PF_4
VCC	VCC	VCC	VCC	VCC
GND	GND	GND	GND	GND
VCC	VCC	VCC	VCC	VCC
GND	GND	GND	GND	GND
OTG2_DP	P0.29	NC	P0.29	USB1_DP
OTG1_DP	P0.31	USB_CONN_DP	P0.31	USB0_DP
OTG2_DN	P0.30	NC	P0.30	USB1_DM
OTG1_DN	USBB-DM	USB_CONN_DN	USBB-DM	USB0_DM
GPI0_B0_15	P2.12	GPO_06	P2.12	P7.2
GPI0_B0_04	P2.13	PWMOUT2	P2.13	P7.1
GPI0_AD_B0_15	P0.0	U6_IRTX	P0.0	P3.1
GPI0_AD_B0_14	P0.1	U6_IRRX	P0.1	P3.2
GPI0_AD_B0_12	P0.2	U5_TX	P0.2	PF_10
GPI0_AD_B0_13	P0.3	U5_RX	P0.3	PF_11
	P0.4	GPO_02	P0.4	P4.1
	P0.5	GPO_03	P0.5	P4.4
	P0.6	GPO_08	P0.6	P7.5
	P0.7	GPO_09	P0.7	P4.8
	P0.8	PWMOUT1	P0.8	P7.4
	P0.9	HICORE	P0.9	P7.3
GPI0_AD_B1_10	P0.10	U1_TX	P4.22	P9.3
GPI0_AD_B1_11	P0.11	U1_RX	P4.23	P2.4
GPI0_AD_B0_02	P0.12	USB_VBUS_CTRL	P0.12	inverted P2_3
GPI0_AD_B0_03	P0.13	GPO_17	P0.13	P9.4
GPI0_AD_B0_01	P0.14	GPO_20	P0.14	P9.5
GPI0_AD_B0_00	P0.15	SPI1_CLK	P5.2	PF_0
	P0.16	GPO_04	P5.3	PF_1
	P0.17	SPI1_DATIN	P5.1	PF_2
	P0.18	SPI1_DATIO	P5.0	PF_3
	P0.19	GPO_05	P0.19	P4.0
	P0.20	GPO_11	P0.20	PE_15
	P0.21	TS_XP	P0.21	ADC5
	P0.22	TS_YP	P0.22-SPIFL_CLK	ADC4
GPI0_AD_B1_08	P0.23	AIN0	P0.23	ADC1
	P0.24	AIN1	P0.24	ADC2
	P0.25	AIN2	P0.25	ADC3
GPI0_B1_12	P0.26	GPO_00	P0.26	ADC0/DAC
GPI0_AD_B1_01	P0.27	I2C1_SDA	P0.27	I2C_SDA
GPI0_AD_B1_00	P0.28	I2C1_SCL	P0.28	I2C_SCL
GND	GND	GND	GND	GND
GND	GND	GND	GND	GND
GPI0_SD_B0_01	P1.2	MCICLK	P1.2	PF_5
GPI0_SD_B0_00	P1.3	MCICMD	P1.3	PC_11
GPI0_AD_B0_05	P1.5	GPO_01	P1.5	PC_3
GPI0_SD_B0_02	P1.6	MCIDAT0	P1.6	PD_4
GPI0_SD_B0_03	P1.7	MCIDAT1	P1.7	PF_7
GPI0_SD_B0_04	P1.11	MCIDAT2	P1.11	PC_14
GPI0_SD_B0_05	P1.12	MCIDAT3	P1.12	P2.5
NVCC_SD	P1.13	GPI0_05	P1.13	P8.8
GPI0_B1_15	P1.18	GPI0_14	P1.18	P9.6
GPI0_B1_14	P1.19	GPI_03	P1.19	PF_6
GPI0_B0_09	P1.20	U7_RX	P1.20	P4_10
GPI0_B0_10	P1.21	U7_TX	P1.21	P4.9
GPI0_B0_11	P1.22	P0.6	P1.22	P8.3
GPI0_B0_12	P1.23	P0.7	P1.23	P8.6
GPI0_B0_13	P1.24	GPO_22	P1.24	P8.5
GPI0_B1_14	P1.25	SYSCLOCK	P1.25	P8.4
GPI0_B0_05	P1.26	SPI2_DATIO	P1.26	P8.3
GPI0_B0_06	P1.27	SPI2_DATIN	P1.27	P8.2
GPI0_B0_07	P1.28	GPI0_04	P1.28	P8.1
GPI0_B0_08	P1.29	SPI2_CLK	P1.29	P8.0
5V_USB_HS	P1.30	USB_CONN_VBUS	P1.30	USB0_VBUS
WDQG_B	P1.31	GPI_02	P1.31	P8.0
NAND_FLASH_RDY	GPI0_19	NAND_FLASH_RDY	NAND_FLASH_RDY	NAND_FLASH_RDY

OEM board connector, pin 1-100
(200 pos SODIMM, 1V8 key)



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TITLE: iMX OEM Carrier Board rev B1

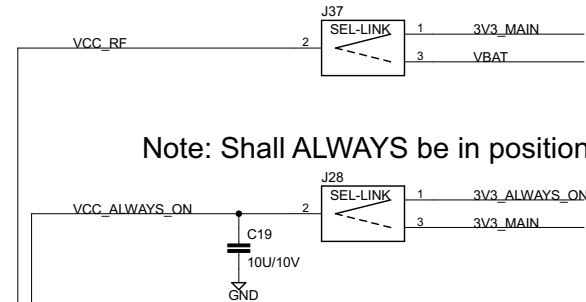
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TP92X		=J6-101	iMX RT1052	LPC2478/1788	LPC3250	LPC4088	LPC4357
TP93X		=J6-102	GND	GND	GND	GND	GND
TP94X	GPIO_AD_B1_14-SAI1_TX_BCLK	=J6-103	GPIO_AD_B1_14 NC	NC	I2S1TX_CLK	NC	P3_0
TP95X	GPIO_AD_B1_13-SAI1_TXD	=J6-104	GPIO_AD_B1_13 NC	NC	I2S1TX_SDA	NC	PC_12
TP96X	GPIO_AD_B1_15-SAI1_TX_SYNC	=J6-105	GPIO_AD_B1_15 NC	NC	I2S1TX_WS	NC	PC_13
TP97X		=J6-106	NC	P0.0	NC	P6_0	
TP98X	GPIO_SD_B1_04-FLEXSPI_CLK_B	=J6-107	GPIO_SD_B1_04 NC/P5.4	P0.1	P5.4	P6_1	
TP99X	GPIO_AD_B1_12-SAI1_RXD	=J6-108	GPIO_AD_B1_12 NC/P5.3	GPI_00	P5.3	P6_2	
TP100X	POR_B	=J6-109	NC/P5.2	POR_B	P5.2	WAKEUP3	
TP101X	Q10FE	=J6-110	NC	ONOFF	NC	WAKEUP2	
TP102X	OTG1_CHD	=J6-111	OTG1_CHD NC/P1.16	GPI_04	P1.16	WAKEUP1	
TP103X	WAKEUP	=J6-112	WAKEUP NC	GPI_06	NC	WAKEUP0	
TP104X		=J6-113	NC/BCS1	USB_CONN_IDBCS1	USB0_ID		
TP105X		=J6-114	NC/P4.30	POWER_ON	P4.30	SAMPLE	
TP106X	GPIO_AD_B1_09-SAI1_MCLK	=J6-115	GPIO_AD_B1_09 NC/P1.16	TST_CLK2	P1.16	CLK2_OUT	
TP107X	PMIC_ON_REQ	=J6-116	PMIC_ON_REQ P2.14	P2.7	P2.14	P9_2	
TP108X	EXT_PWR_EN	=J6-117	EXT_PWR_EN P2.15	GPI_00	P2.15	P8_1	
TP109X	PERI_PWREN	=J6-118	PERI_PWREN P2.19	GPIO_01	P2.19	P8_2	
TP110X	GPIO_B1_13-WDOG_B	=J6-119	GPIO_B1_13 P2.21	GPI_07	P2.21	PC_2	
TP111X	GPIO_AD_B1_02	=J6-120	GPIO_AD_B1_02 P2.22	P2.0	P2.22	PA_1	
TP112X	GPIO_AD_B1_03	=J6-121	GPIO_AD_B1_03 P2.23	P2.1	P2.23	PA_2	
TP113X	GPIO_AD_B1_04-LPUART3_CTS_B	=J6-122	GPIO_AD_B1_04 P2.25	P2.2	P2.25	PA_3	
TP114X	GPIO_AD_B1_05-LPUART3_RTS_B	=J6-123	GPIO_AD_B1_05 P2.26	P2.3	P2.26	P9_0	
TP115X	GPIO_AD_B1_06-LPUART3_TX	=J6-124	GPIO_AD_B1_06 P2.27	P2.4	P2.27	P9_1	
TP116X	GPIO_AD_B1_07-LPUART3_RX	=J6-125	GPIO_AD_B1_07 P2.30	P2.5	P2.30	PF_8	
TP117X	CCM_CLK1_N	=J6-126	CCM_CLK1_N P2.31	P2.6	P2.31	PF_9	
TP118X		=J6-127	P4.28	GPO_07	P4.28	P4_3	
TP119X	CCM_CLK1_P	=J6-128	CCM_CLK1_P P4.29	GPO_21	P4.29	P4_2	
TP120X		=J6-129	GND	GND	GND	GND	
TP121X		=J6-130	GND	GND	GND	GND	
TP122X		=J6-131	-/SEMC_DQS	BA15	BA15	BA15	
TP123X		=J6-132	-/SEMC_DM1	BQDM1/BCS2	BCS3	BCS2	
TP124X		=J6-133	-/SEMC_CLK	BA14	BA14	BA14	
TP125X		=J6-134	-/SEMC_DM0	BQDM0/BCS0	BCS2	BCS0	
TP126X		=J6-135	-/SEMC_CKE	BA13	BA13	BA13	
TP127X		=J6-136	-/SEMC_CAS	BCAS/BBLS3	BCS1	BBLS3	
TP128X		=J6-137	-/SEMC_A12	BA12	BA12	BA12	
TP129X		=J6-138	-/SEMC_RAS	BRAS/BBLS2	BCS0	BBLS2	
TP130X		=J6-139	-/SEMC_A11	BA11	BA11	BA11	
TP131X		=J6-140	-/SEMC_BA1	BBLS1	BBLS1	BBLS1	
TP132X		=J6-141	-/SEMC_A10	BA10	BA10	BA10	
TP133X		=J6-142	-/SEMC_BA0	BBLS0	BBLS0	BBLS0	
TP134X		=J6-143	-/SEMC_A9	BA9	BA9	BA9	
TP135X		=J6-144	-/SEMC_WE	BWE	BWE	BWE	
TP136X		=J6-145	-/SEMC_A8	BA8	BA8	BA8	
TP137X		=J6-146	-/SEMC_CS0	BOE	BOE	BOE	
TP138X	GPIO_EMC_41	=J6-147	-/SEMC_A7	BA7	BA7	BA7	
TP139X		=J6-148	GPIO_EMC_41	BA23	BA23	BA23	
TP140X	GPIO_EMC_40	=J6-149	-/SEMC_A6	BA6	BA6	BA6	
TP141X		=J6-150	GPIO_EMC_40	BA22	BA22	BA22	
TP142X		=J6-151	-/SEMC_A5	BA5	BA5	BA5	
TP143X	GPIO_B1_04	=J6-152	GPIO_B1_04	BA21	BA21	BA21	
TP144X		=J6-153	-/SEMC_A4	BA4	BA4	BA4	
TP145X	GPIO_B1_05	=J6-154	GPIO_B1_05	BA20	BA20	BA20	
TP146X	GPIO_B1_06	=J6-155	-/SEMC_A3	BA3	BA3	BA3	
TP147X		=J6-156	GPIO_B1_06	BA19	BA19	BA19	
TP148X	GPIO_B1_07	=J6-157	-/SEMC_A2	BA2	BA2	BA2	
TP149X		=J6-158	GPIO_B1_07	BA18	BA18	BA18	
TP150X	GPIO_B1_08	=J6-159	-/SEMC_A1	BA1	BA1	BA1	
TP151X		=J6-160	GPIO_B1_08	BA17	BA17	BA17	
TP152X		=J6-161	-/SEMC_A0	BA0	BA0	BA0	
TP153X	GPIO_B1_09	=J6-162	GPIO_B1_09	BA16	BA16	BA16	
TP154X	GPIO_B1_11	=J6-163	GPIO_B1_11	DBUS_EN/BCS3	NC	BCS3	
TP155X	GPIO_B1_10	=J6-164	GPIO_B1_10	ABUF_EN(NC)	ABUF_EXT	(PD_1)	
TP156X	VCC_ALWAYS_ON	=J6-165	VCC	VCC	VCC	VCC	
TP157X		=J6-166	GND	GND	GND	GND	
TP158X		=J6-167	-/SEMC_D15	BD15	BD15	BD15	
TP159X		=J6-168		BD31/P3.31	GPI_08	BD31/P3.31	
TP160X		=J6-169	-/SEMC_D14	BD14	BD14	BD14	
TP161X	W_GPIO_25	=J6-170	W_GPIO_25	BD30/P3.30	GPO_23	BD30/P3.30	
TP162X		=J6-171	-/SEMC_D13	BD13	BD13	BD13	
TP163X	W_GPIO_32	=J6-172	W_GPIO_32	BD29/P3.29	GPI_09	BD29/P3.29	
TP164X		=J6-173	-/SEMC_D12	BD12	BD12	BD12	
TP165X	W_GPIO_36	=J6-174	W_GPIO_36	BD28/P3.28	GPI_19	BD28/P3.28	
TP166X		=J6-175	-/SEMC_D11	BD11	BD11	BD11	
TP167X	W_SW2	=J6-176	W_SW2	BD27/P3.27	P2.8	BD27/P3.27	
TP168X		=J6-177	-/SEMC_D10	BD10	BD10	BD10	
TP169X	W_BOOT	=J6-178	W_BOOT	BD26/P3.26	P2.9	BD26/P3.26	
TP170X		=J6-179	-/SEMC_D9	BD9	BD9	BD9	
TP171X	W_UART_DTR	=J6-180	W_UART_DTR	BD25/P3.25	P2.10	BD25/P3.25	
TP172X		=J6-181	-/SEMC_D8	BD8	BD8	BD8	
TP173X	W_UART_DSR	=J6-182	W_UART_DSR	BD24/P3.24	P2.11	BD24/P3.24	
TP174X		=J6-183	-/SEMC_D7	BD7	BD7	BD7	
TP175X	W_UART_RTS	=J6-184	W_UART_RTS	BD23/P3.23	P2.12	BD23/P3.23	
TP176X		=J6-185	-/SEMC_D6	BD6	BD6	BD6	
TP177X	W_UART_CTS	=J6-186	W_UART_CTS	BD22/P3.22	GPI_28	BD22/P3.22	
TP178X		=J6-187	-/SEMC_D5	BD5	BD5	BD5	
TP179X	W_UART_TXD	=J6-188	W_UART_TXD	BD21/P3.21	U2_TX	BD21/P3.21	
TP180X		=J6-189	-/SEMC_D4	BD4	BD4	BD4	
TP181X	W_UART_RXD	=J6-190	W_UART_RXD	BD20/P3.20	U2_RX	BD20/P3.20	
TP182X		=J6-191	-/SEMC_D3	BD3	BD3	BD3	
TP183X	WLED_RED	=J6-192	WLED_RED	BD19/P3.19	GPI_05	BD19/P3.19	
TP184X		=J6-193	-/SEMC_D2	BD2	BD2	BD2	
TP185X	WLED_GREEN	=J6-194	WLED_GREEN	BD18/P3.18	U2_CTS	BD18/P3.18	
TP186X		=J6-195	-/SEMC_D1	BD1	BD1	BD1	
TP187X	WLED_BLUE	=J6-196	WLED_BLUE	BD17/P3.17	U3_RX	BD17/P3.17	
TP188X		=J6-197	-/SEMC_D0	BD0	BD0	BD0	
TP189X	W_OSC32K768	=J6-198	W_OSC32K768	BD16/P3.16	U3_TX	BD16/P3.16	
TP190X	VCC_RF	=J6-199	VCC_RF	VCC	VCC	VCC	
TP191X		=J6-200	GND	GND	GND	GND	

OEM board connector, pin 101-200
(200 pos SODIMM, 1V8 key)



Note: Shall ALWAYS be in position 1-2 for iMX RT OEM boards!



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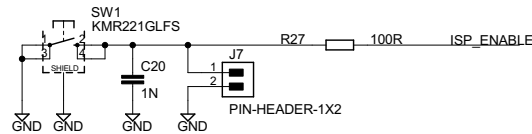
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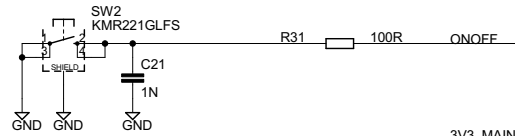
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Push-buttons and LEDs

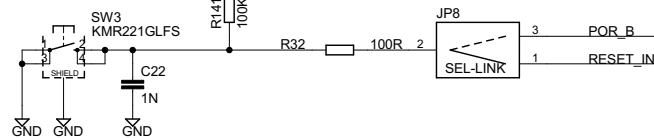
ISP Enable Key and jumper



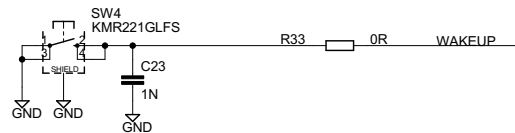
ON/OFF Key



Reset Key



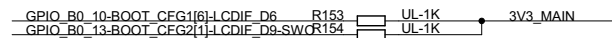
Detect Switch



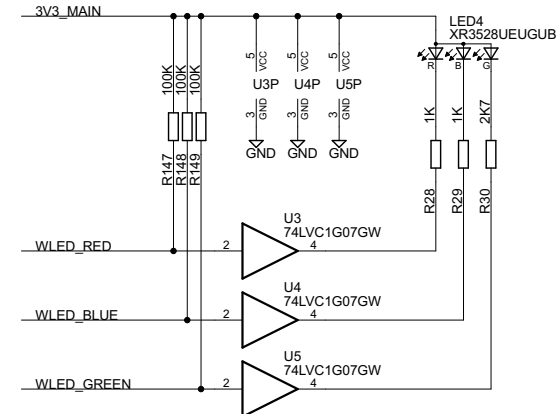
Watchdog control



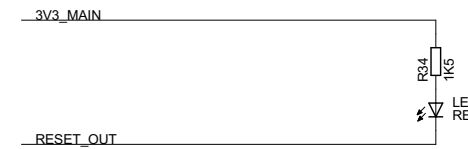
Optional i.MX RT1052/1062 boot control



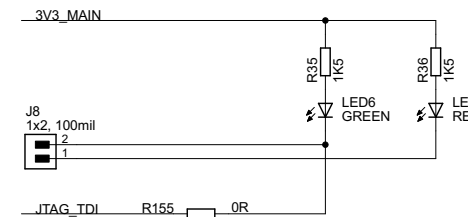
RGB-LED for RF-module



Reset LED



User LEDs



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JTAG Debug Interface

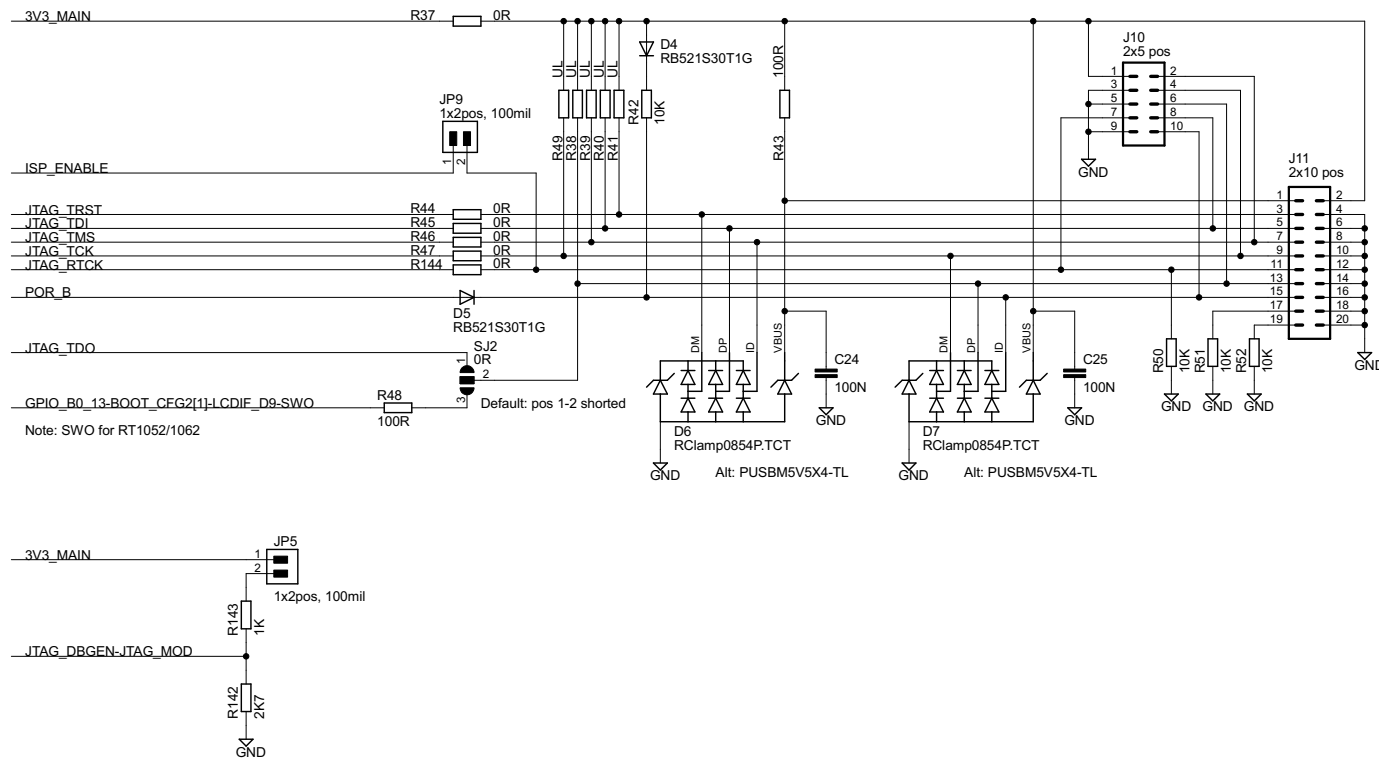
ARM 10-pin interface Serial Wire Mode

1-VCC	2-SWDIO
3-GND	4-SWCLK
5-GND	6-SWO
7-N/U	8-N/U
9-GND	10-RESET

ARM 10-pin interface JTAG Mode

1-VCC	2-TMS
3-GND	4-TCLK
5-GND	6-TDO
7-RTCK	8-TDI
9-GND	10-RESET

10 pos (50 mil pitch) connector



20 pos (100 mil pitch) connector

ARM 20-pin interface Serial Wire Mode

1-VCC (Vtref)	2-Optional VCC (Vtref)
3-N/U	4-GND
5-N/U	6-GND
7-SWDIO	8-GND
9-SWCLK	10-GND
11-N/U	12-GND
13-SWO	14-GND
15-RESET	16-GND
17-N/C	18-GND
19-N/C	20-GND

ARM 20-pin interface JTAG Mode

1-VCC (Vtref)	2-Optional VCC (Vtref)
3-N/C (TRST)	4-GND
5-TDI	6-GND
7-TMS	8-GND
9-TCLK	10-GND
11-RTCK	12-GND
13-TDO	14-GND
15-RESET	16-GND
17-N/C	18-GND
19-N/C	20-GND



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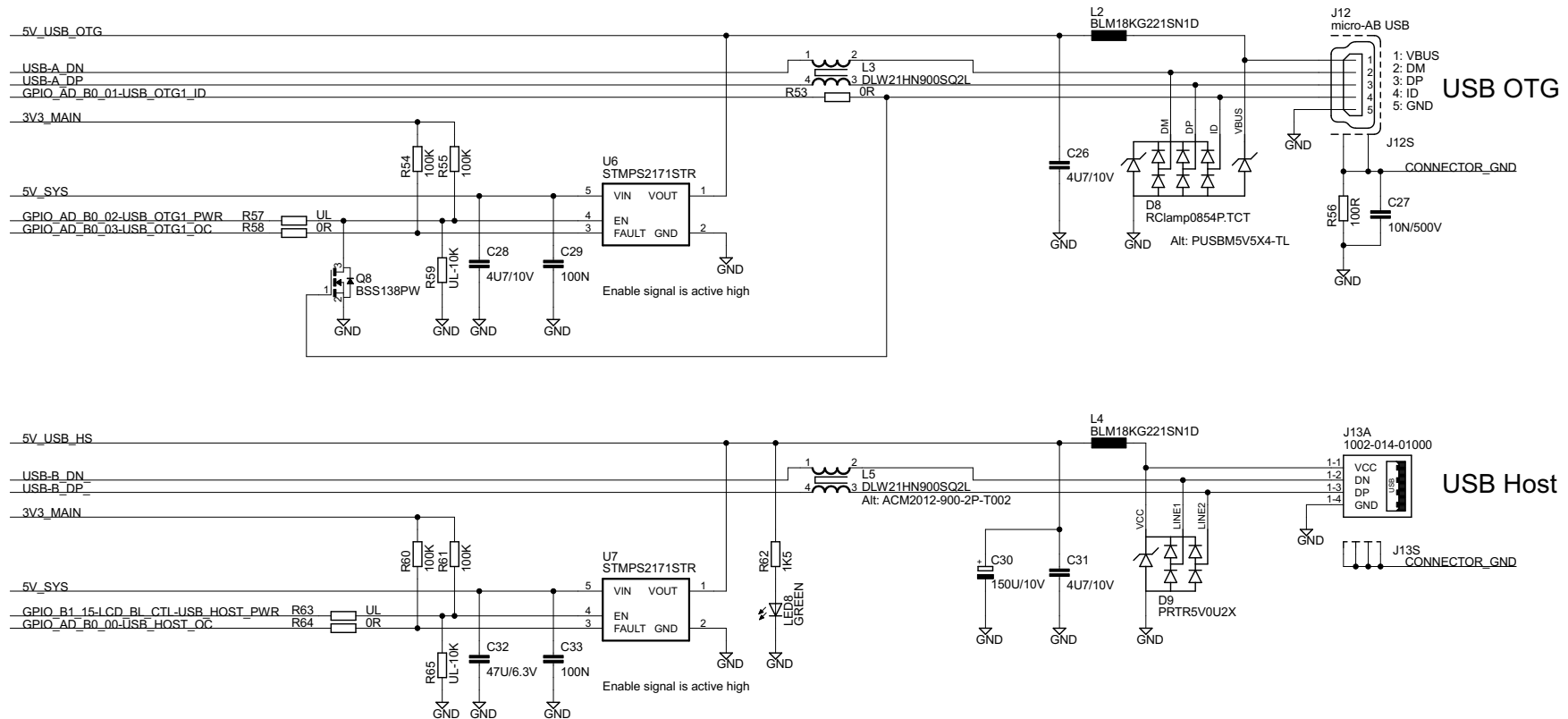
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USB interface on i.MX/LPC

OEM Board	USB-A ^{OTG or Device}	USB-B ^{Host}
iMX RT1052/1062	OTG1	OTG2
LPC1788	USB-2	USB-1
LPC2478	USB-2	USB-1
LPC3250	USB	Not connected
LPC4088	USB-2	USB-1
LPC4357	USB0	USB1

USB Interfaces



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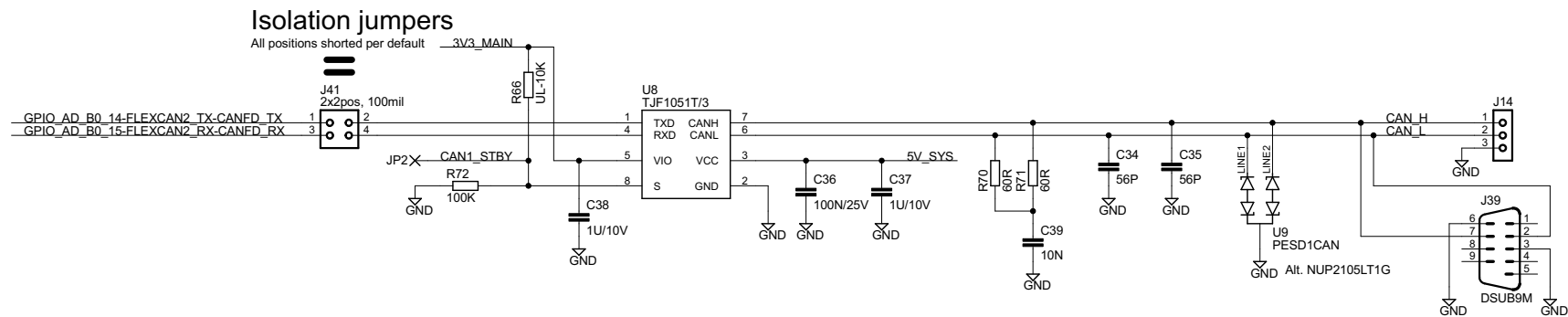
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CAN Transceiver



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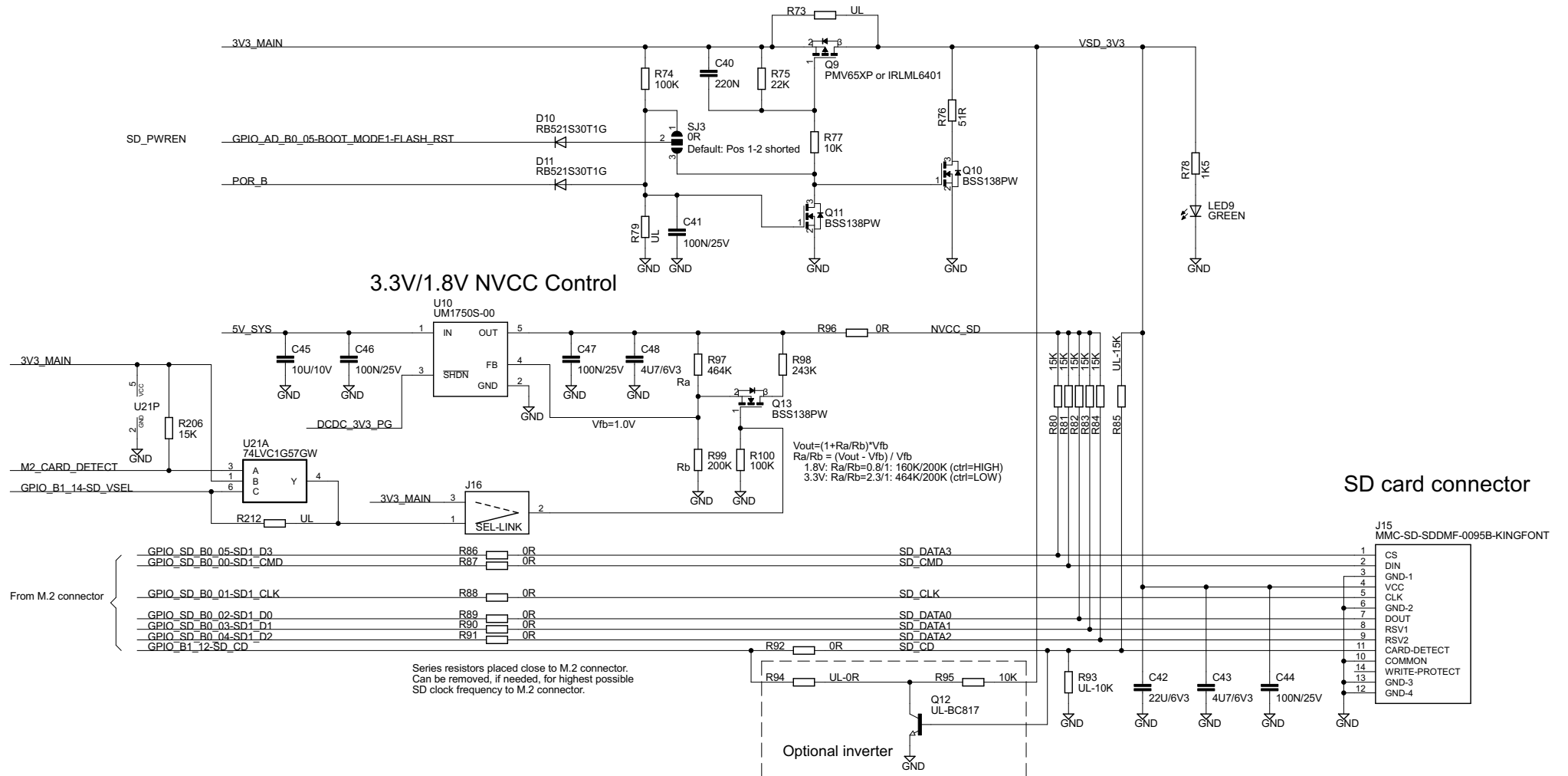
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SD Card Interface

Power Switch for SD Card Interface



M2_CARD_DETECT 0=M.2 card inserted 1=M.2 card not inserted	GPIO_B1_14-SD_VSEL 0=Set NVCC_SD to 3.3V 1=Set NVCC_SD to 1.8V	NVCC_SD control 0=NVCC_SD is 3.3V 1=NVCC_SD is 1.8V
0	0	1 Force NVCC_SD to 1.8V when M.2 card inserted
0	1	1 Force NVCC_SD to 1.8V when M.2 card inserted
1	0	0 Follow GPIO_B1_14-SD_VSEL when when M.2 card not inserted
1	1	1 Follow GPIO_B1_14-SD_VSEL when when M.2 card not inserted



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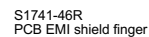
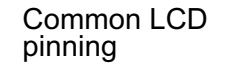
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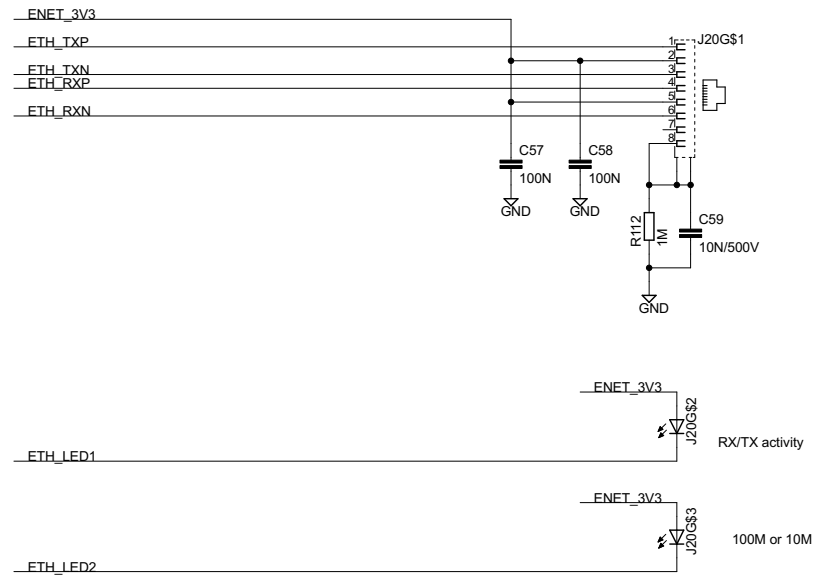
LCD Interface



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Ethernet Interface

RJ45 Connector with integrated magnetics



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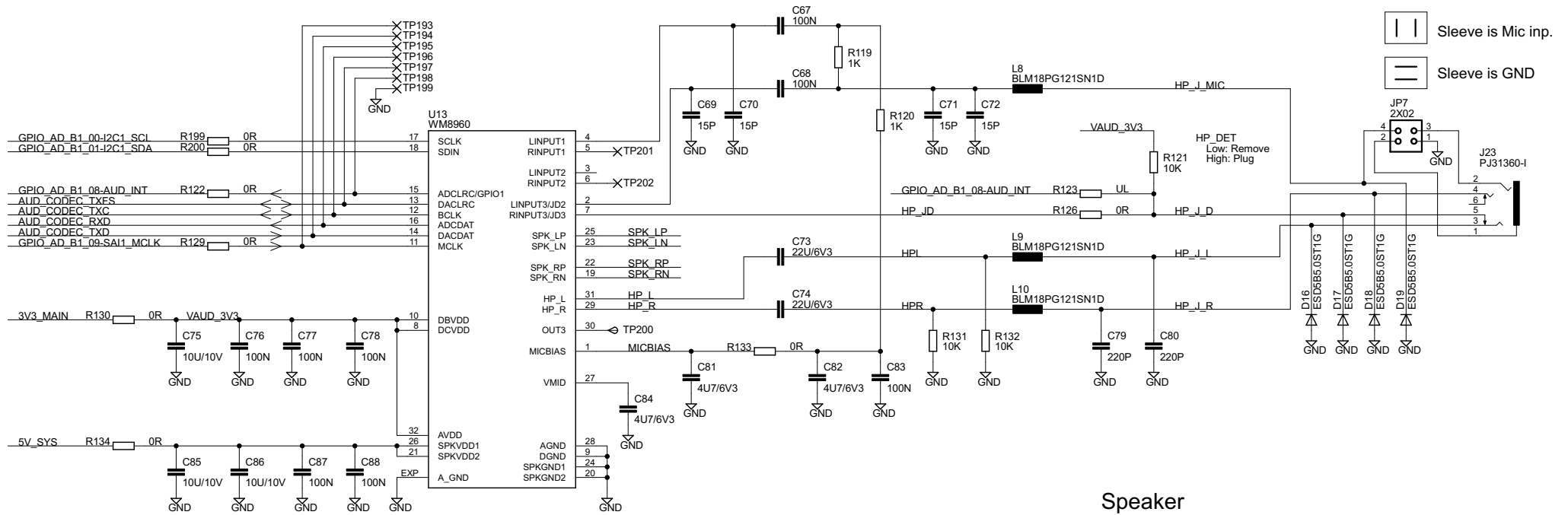
UART-to-USB Bridge Interface



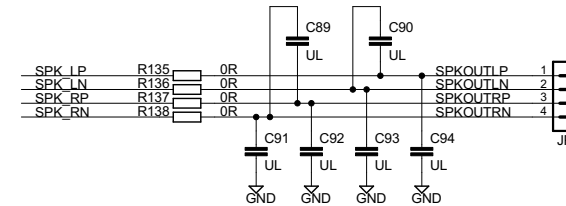
All positions shorted per default



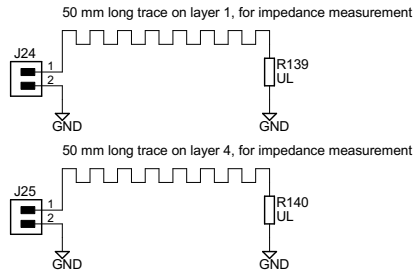
Audio Codec



Speaker



Impedance control



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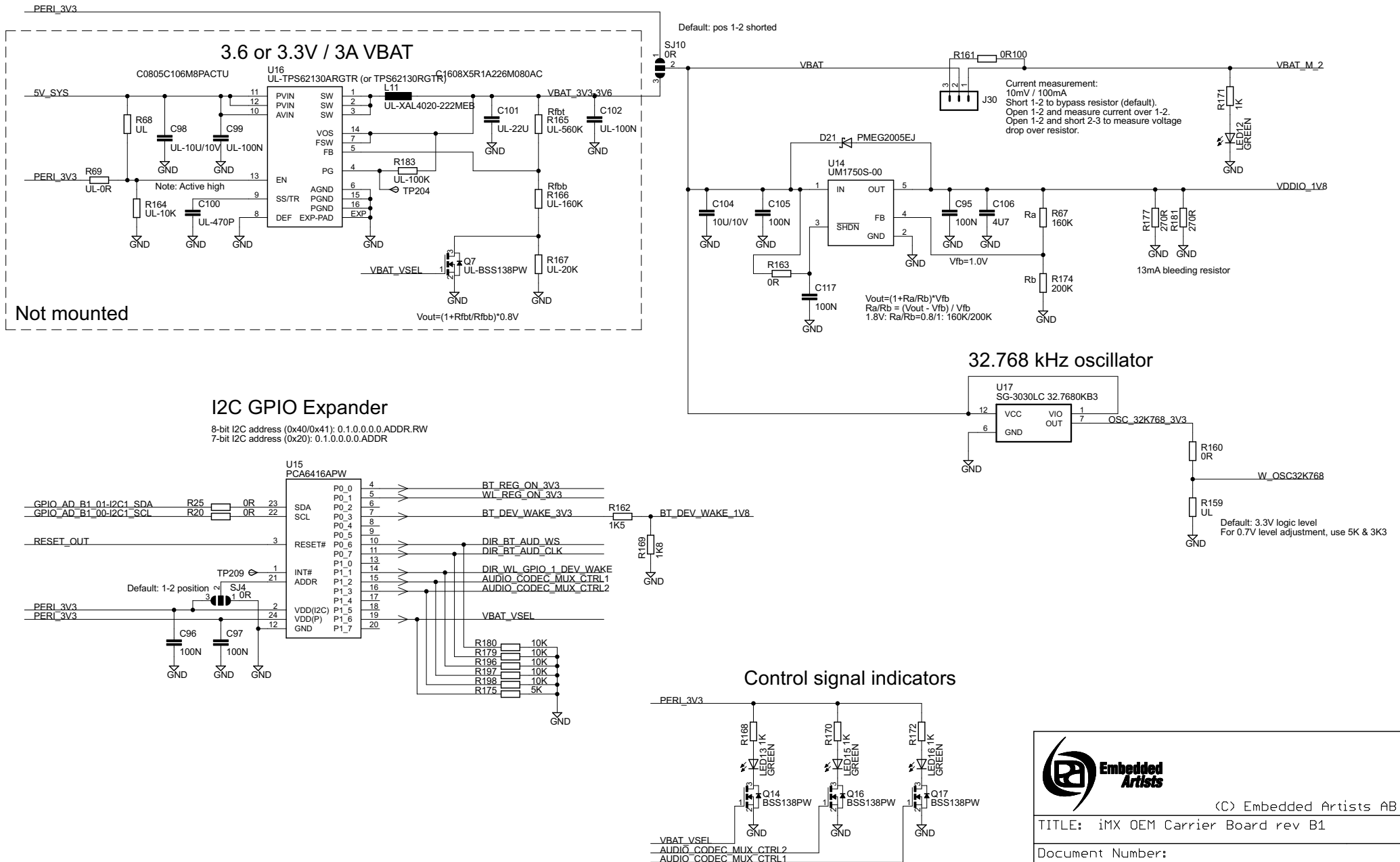
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M.2 Power Supply and Control



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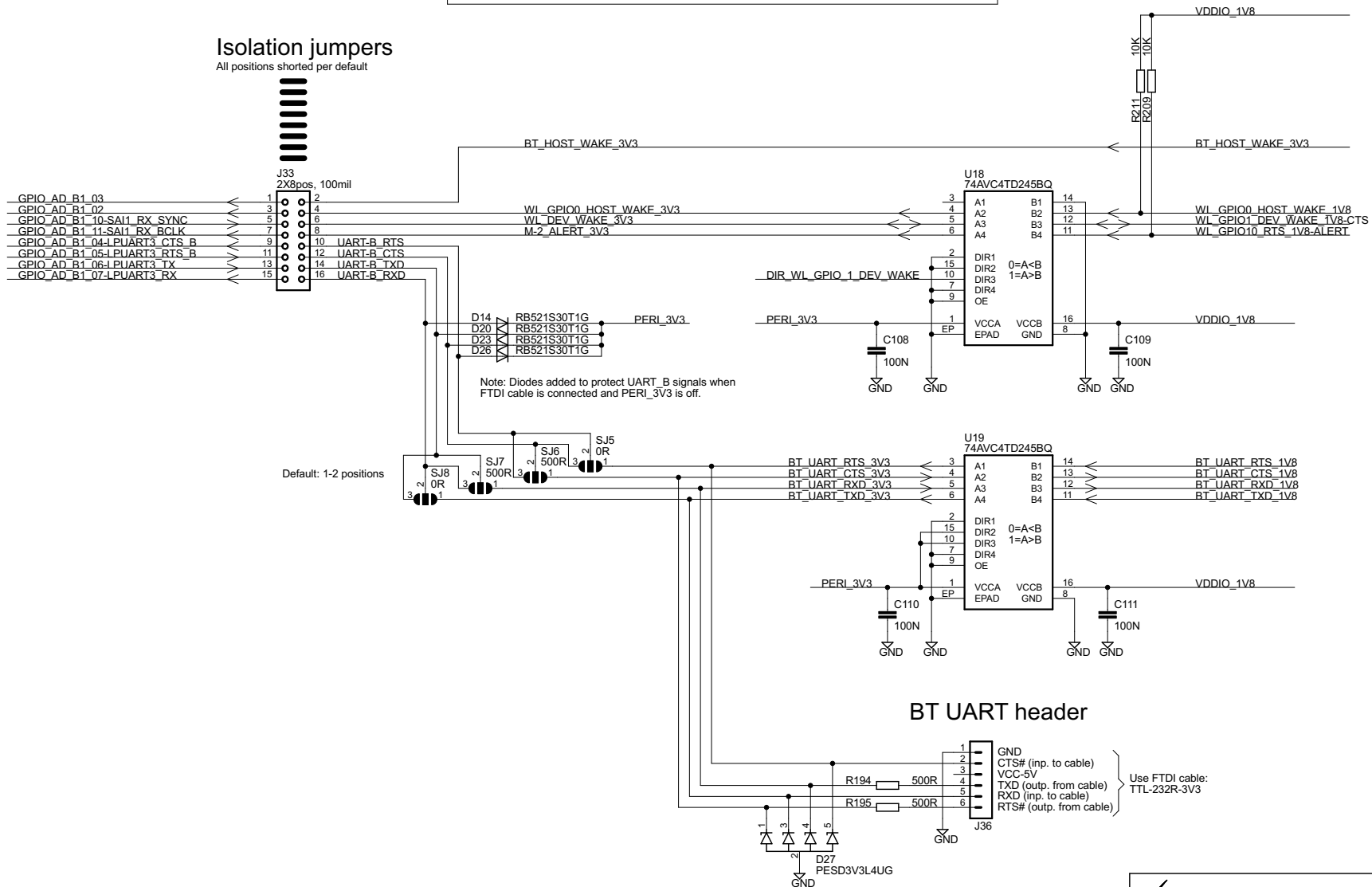
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Level Translation for BT UART and Control Signals



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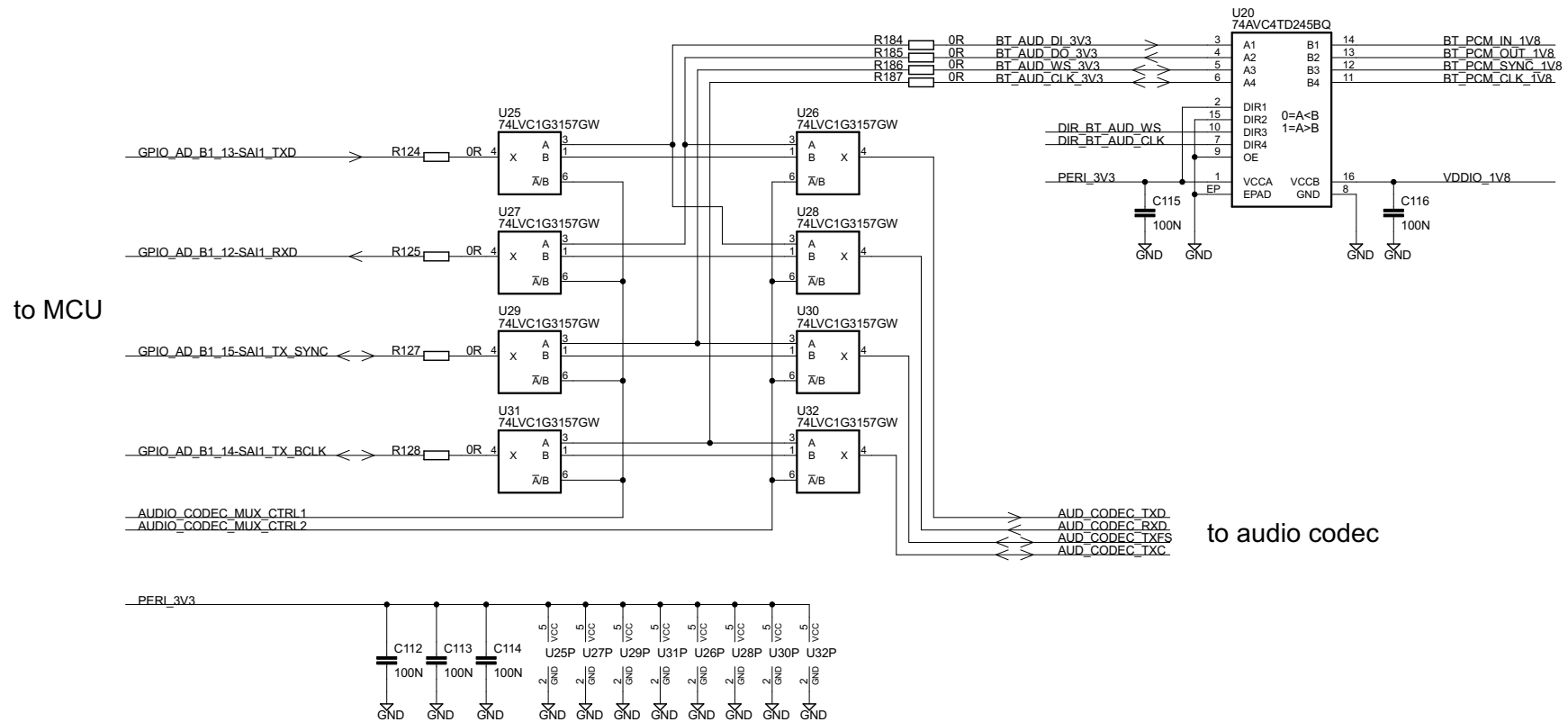
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Level Translation and Audio Signal Multiplexing



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