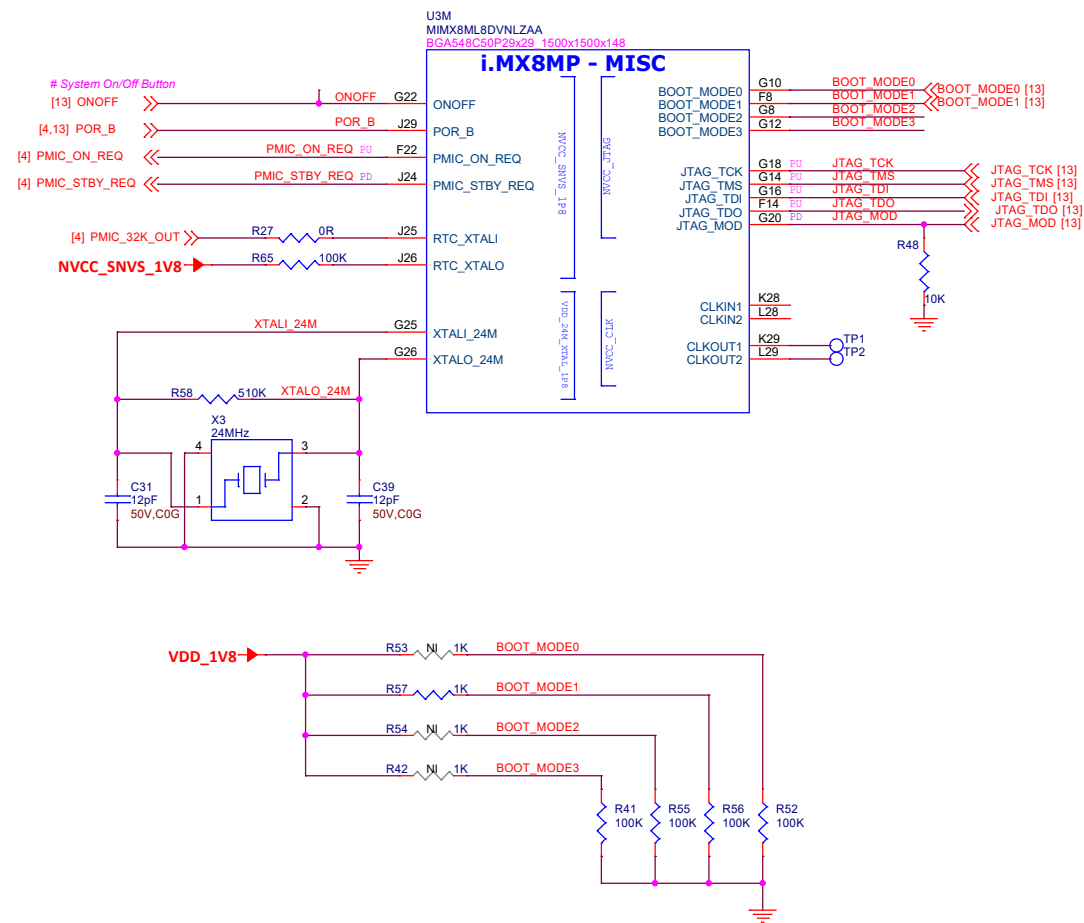


Full Line Address	Physical Address	7	6	5	4	3	2	1	0
0x470[15:0]	0x470[7:0]	OVERRIDE_NAND_PG_PER_BLK_VAL 00 - 32 pages 01 - 64 pages 10 - 128 pages 11 - 32 pages		OVERRIDE_FLEXSPI_BT_SEL 0 - Do not override 1 - Override	OVERRIDE_FLEXSPI_BT_SEL_VAL 00 - FlexSPI (Hyperflash 1.8V) 01 - FlexSPI (Flash with 4B READ(1x13 default supported)) 10 - Default Octal mode (Micron, supported on 8QXP B0) 11 - Default Octal mode (Mxic, Nice to have)		FLEXSPI_AUTO_PROBE_EN 0 - Disable 1 - Enable	FLEXSPI_AUTO_PROBE_TYPE 00 - QuadSPI NOR 01 - MxicOctal 10 - MicronOctal 11 - AdestoOctal	
0x480[15:0]	0x480[7:0]	Reserved	FLEXSPI_DUMMY_CYCLE_SEL				FLEXSPI_FREQ_SEL: 000 - 100 MHz 001 - 133 MHz 010 - 166 MHz 011 - 200 MHz 100 - 80 MHz 101 - 20 MHz		
0x480[31:16]	0x480[23:16]	NOC_ID_REMAP_BYPASS	ROM_NO_LOG if blown, ROM will not log event to log buffer	SDP_DISABLE Disable USB serial download	FORCE_BT_FROM_FUSE Boot from programmed fuses, not Boot Mode Pins	FLEXSPI_HOLD_TIME_SEL 00 - 500us 01 - 1ms 10 - 3ms 11 - 10ms		WDG_TIMEOUT_SELECT 00 - 2.0s 01 - 1.5s 10 - 1.0s 11 - 0.5s	
0x490[15:0]	0x490[7:0]	USDHC_PWR_EN 0 - No power cycle 1 - Enabled via	EMMC_FAST_BT 0 - Regular 1 - Fast Boot	SDMMC_BUS_WIDTH 00 - 8-bit 01 - 4-bit 10 - 8-bit DDR (MMC 4.4) 11 - 4-bit DDR (MMC 4.4)		SD_SPEED: 00 - Normal/SDR12 01 - High/SDR25 10 - SDR50 11 - SDR104	EMMC_SPEED: 00 - Normal 01 - High	USDHC_VOL_SEL For Normal Boot Mode IO Voltage 0 - 3.3V 1 - 1.8V	USDHC_MFG_VOL_SEL For Mfg Mode IO Voltage 0 - 3.3V 1 - 1.8V
0x490[31:16]	0x490[23:16]	RECOVERY_SDMMC_BOOT_DIS 0 - Enable 1 - Disable	IMG_CNTN_SET1_OFFSET				USDHC_PAD_SION_EN 0 - Disable 1 - Enable	BT_RDC_DISABLE	USDHC_DLL_EN 0 - Disable DLL for SD/eMMC 1 - Enable DLL for SD/eMMC
0x4A0[15:0]	0x4A0[7:0]	SD_CALI_STEP '00' - 1 TBD	USDHC_PWR_INTERVAL 00 - 20ms 01 - 10ms 10 - 5ms 11 - 2.5ms			USDHC_PWR_DELAY 0 - 5ms 1 - 2.5ms	USDHC_PWR_POLARITY 0 - Low 1 - High	USDHC_OVRD_PAD_SETTING_UP1	EMMC_FAST_BT_ACK 0 - Boot Ack Disabled 1 - Boot Ack Enabled
0x4A0[31:16]	0x4A0[23:16]	Reserved							
0x4B0[15:0]	0x4B0[7:0]	Reserved	NAND_GPMI_DDR_DLL_VAL (GPMI Read DDR DLL Target Value) 0000 - 7 0001 - 1 0111 - 0 1111 - 15				USB_SS_ENABLE		NAND_CS_NUM (Nand Number Of Devices) 00 - 1 01 - 2 10 - 4 11 - Reserved
0x4B0[31:16]	0x4B0[23:16]	Reserved	FlexSPI NAND Busy Bit Offset Override			FlexSPI NAND CS Interval 00-100ns 01-200ns 10-400ns 11-50ns		FlexSPI NAND Column Address Width 00-12 01-13 10-14 11-15	
Full Line Address	Physical Address	7	6	5	4	3	2	1	0
0x470[15:0]	0x470[15:8]	BOOT_MODE_FUSES BootRom will retrieve boot mode from these fuses instead of BOOT_MODE pins if * BOOT_MODE_PINS=0x0 or * BT_FUSE_SEL blown				OVERRIDE_USDHC_BT_SEL 0 - Do not override 1 - Override	OVERRIDE_USDHC_BT_SEL_VAL 00 - uSDHC1 SD 01 - uSDHC1 eMMC 10 - uSDHC2 eMMC 11 - uSDHC3 SD		OVERRIDE_NAND_PG_PER_BLK 0 - Do not override 1 - Override
0x480[15:0]	0x480[15:8]	BT_LPB (Core/DDR/Bus): '00'/'01' - LPB Disable '10' - Div by 2 '11' - Div by 4		BT_LPB_POLARITY (GPIO polarity)	ICACHE_DIS L1 I-Cache DISABLE	TZASC_EN	WDG_EN '0' - Disabled '1' - Enabled	BT_FREQ_SEL (ARM/DDR) 0 - 800 / 800 MHz 1 - 400 / 400 MHz	DCACHE_DIS Disable L1 and L2 D-Cache
0x480[31:16]	0x480[31:24]	ECSPI_PORT_SEL 000 - eCSPI1 001 - eCSPI2 010 - eCSPI3		ECSPI_ADDR_SEL 0 - 3-bytes (24-bit) 1 - 2-bytes (16-bit)	ECSPI_CS_SEL(SPI only): 00 - CS#0 (default) 01 - CS#1 10 - CS#2 11 - CS#3		RECOVER_ECSPI_BOOT_EN '0' - Disabled '1' - Enabled		DCACHE_BYPASS_DIS
0x490[15:0]	0x490[15:8]	USDHC_DLL_SEL 0 - DLL Slave Mode for 1 - DLL Override Mode	SDMMC_DLL_DLY[6:0] Delay target for USDHC DLL, it is applied to slave mode target delay or override mode target delay depends on DLL Override fuse bit value.						
0x490[31:16]	0x490[31:24]	USDHC_OVRD_PAD_SETTING_LOW8[7:0]							
0x4A0[15:0]	0x4A0[15:8]	BT_TOGGLE_MODE	NAND_FCB_SERCH_COUNT 00 - 2 01 - 2 10 - 4 11 - 8			NAND_TG_PREAMBLE_RD_LATENCY (Toggle Mode 33MHz Preamble Delay, Read Latency) '000' - 16 GPMICLK cycles. '001' - 1 GPMICLK cycles. '010' - 2 GPMICLK cycles. '011' - 3 GPMICLK cycles. '100' - 4 GPMICLK cycles. '101' - 5 GPMICLK cycles. '110' - 6 GPMICLK cycles. '111' - 7 GPMICLK cycles. '1111' - 15 GPMICLK cycles.			NAND_RST_TIME
0x4A0[31:16]	0x4A0[31:24]	NAND_OVERRIDE_PAD_SETTING[7:0]							
0x4B0[15:0]	0x4B0[15:8]	NAND_READ_RETRY_SEQ_ID[3:0] 0000 - don't use read retry(RR) sequence embedded in ROM 0001 - Micron 20nm RR sequence 0010 - Toshiba A19nm RR sequence 0011 - Toshiba 19nm RR sequence 0100 - SanDisk 19nm RR sequence 0101 - SanDisk 19nmRR sequence 0110 - Hynix 20nm A Die RR sequence 0111 - Hynix 26nm RR sequence 1000 - Hynix 20nm B Die RR sequence 1001 - Hynix 20nm C Die RR sequence Others - Reserved				NAND_ROW_ADDR_BYTES 00 - 3 01 - 2 10 - 4 11 - 5		Reserved	Reserved
0x4B0[31:16]	0x4B0[31:24]	RNG_TRIM[7:0]							

i.MX8M Plus ROM Fuse

i.MX8M Plus MISC



BOOT_MODE1	BOOT_MODE0	Boot Modes
1	0	USDHC3 (eMMC boot only, SD3 8-bit)
0	1	USB Serial Download

i.MX8M Plus Boot Mode

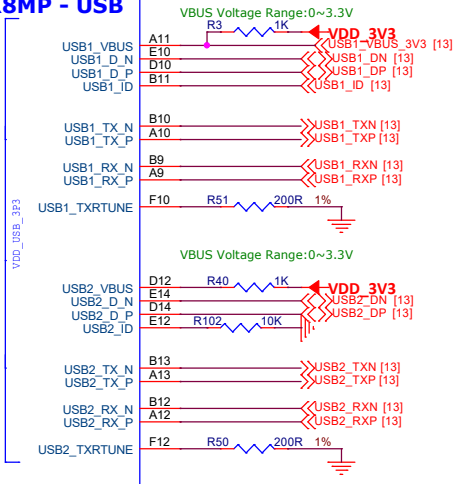
BOOT_MODE3	BOOT_MODE2	BOOT_MODE1	BOOT_MODE0	Boot Modes
0	0	0	0	Boot From Internal Fuses
0	0	0	1	USB Serial Download
0	0	1	0	USDHC3 (eMMC boot only, SD3 8-bit) Default
0	0	1	1	USDHC2 (SD boot only, SD2)
0	1	0	0	NAND 8-bit single device 256 page
0	1	0	1	NAND 8-bit single device 512 page
0	1	1	0	QSPI 3B Read
0	1	1	1	QSPI Hyperflash 3.3V
1	0	0	0	ecSPI Boot
1	0	0	1	Reserved
1	0	1	0	FLEXSPI Serial NAND 2k page
1	0	1	1	FLEXSPI Serial NAND 4k page
1	1	0	0	Reserved
1	1	0	1	Reserved
1	1	1	0	Reserved
1	1	1	1	Reserved

Caution:
BOOT_MODE0, BOOT_MODE1, BOOT_MODE2, BOOT_MODE3, JTAG_MOD and POR_B must be pulled to "11111" for i.MX8M Plus to enter Boundary Scan mode.

i.MX8M Plus PHYs

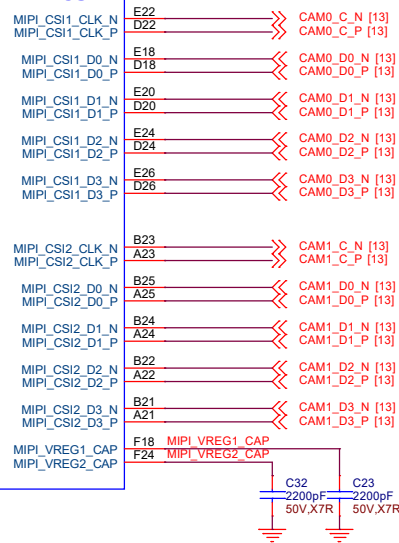
U3B
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

i.MX8MP - USB



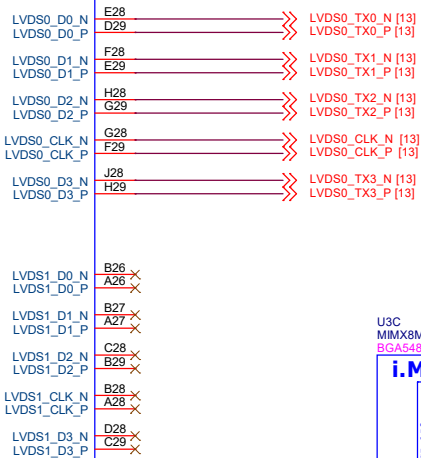
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BGA548C50P29x29 1500x1500x148

i.MX8MP - CSI



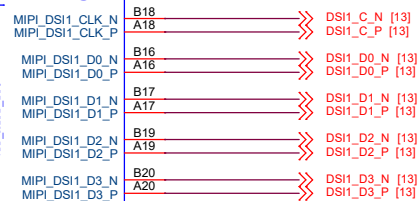
U3G
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BGA548C50P29x29 1500x1500x148

i.MX8MP - LVDS



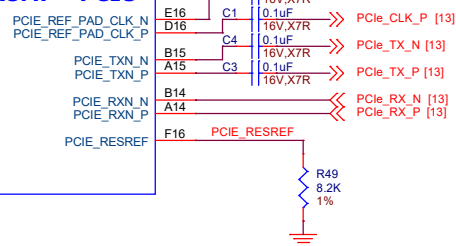
U3D
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BGA548C50P29x29 1500x1500x148

i.MX8MP - DSI



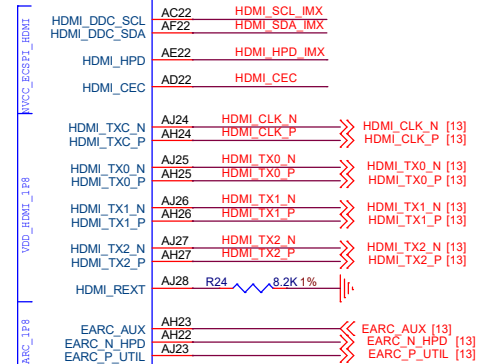
U3C
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

i.MX8MP - PCIe



U3F
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

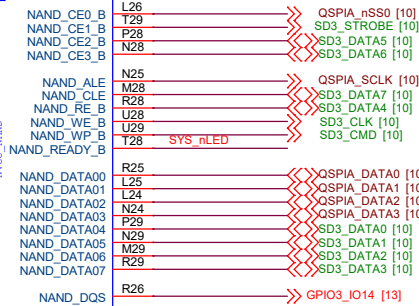
i.MX8MP - HDMI



i.MX8M Plus IO Interface

U3I
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

i.MX8MP - NAND



Blink: SYS_STATUS

SYS_nLED

VDD_3V3

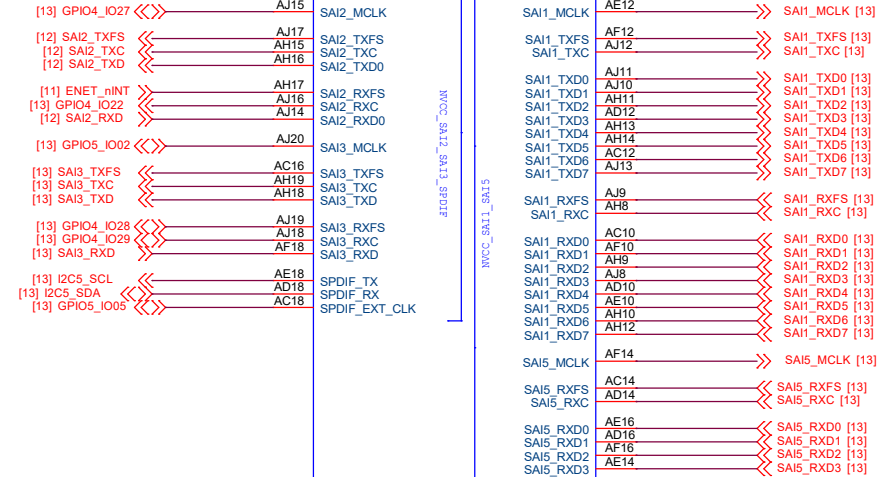
R12
1K

LED1
Green

Q1
DMG1012T-7

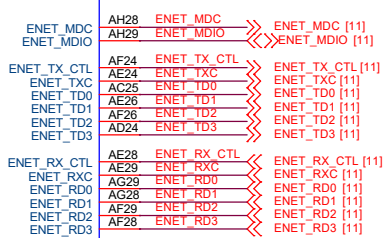
U3H
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

i.MX8MP - SAI



U3K
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

i.MX8MP - eNET



U3L
MIMX8ML8DVNLZAA
BGA548C50P29x29 1500x1500x148

i.MX8MP - Peri

