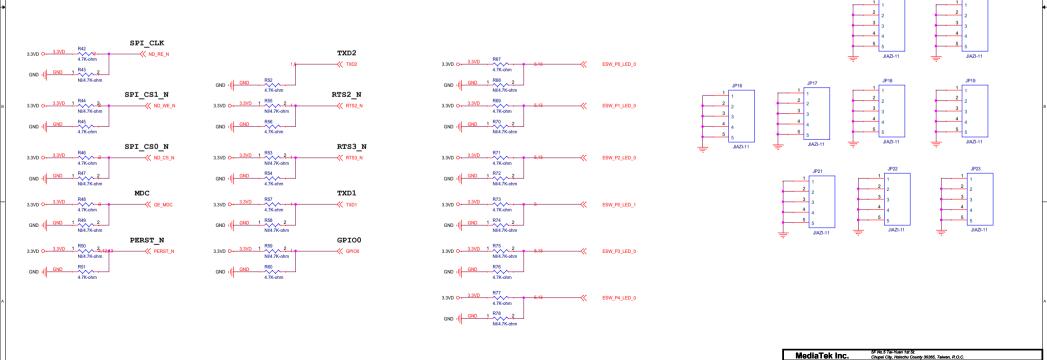


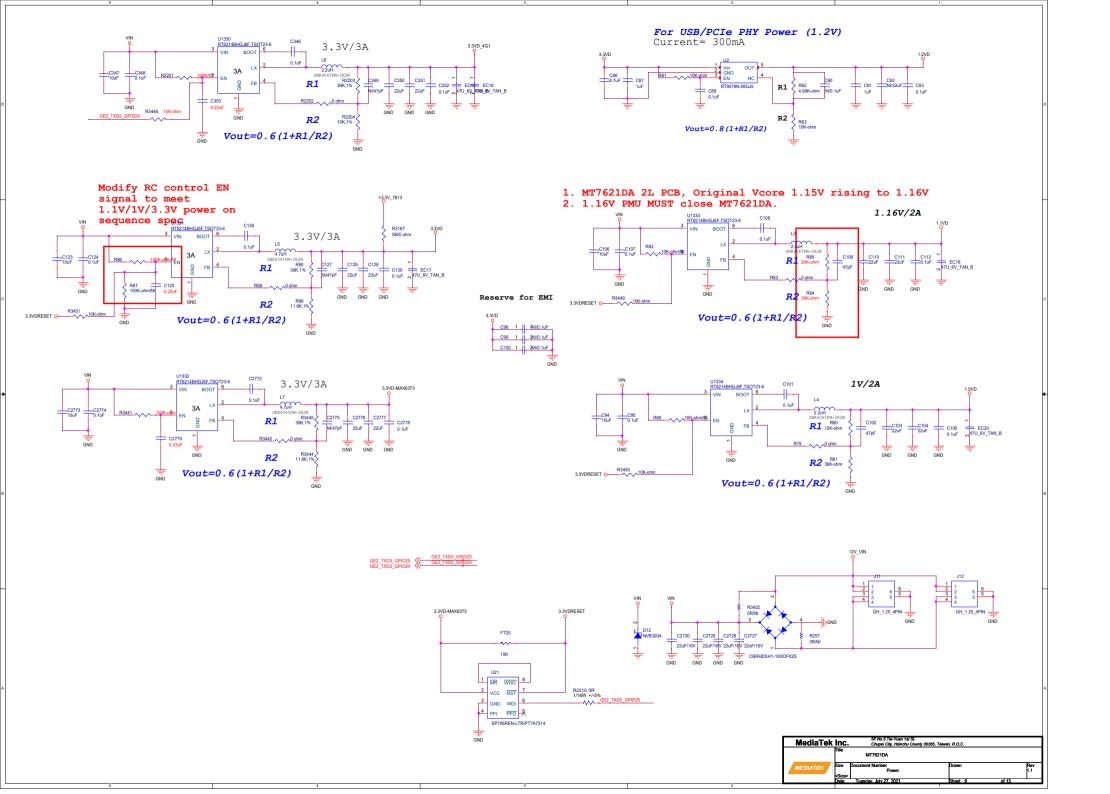
Boot Strapping

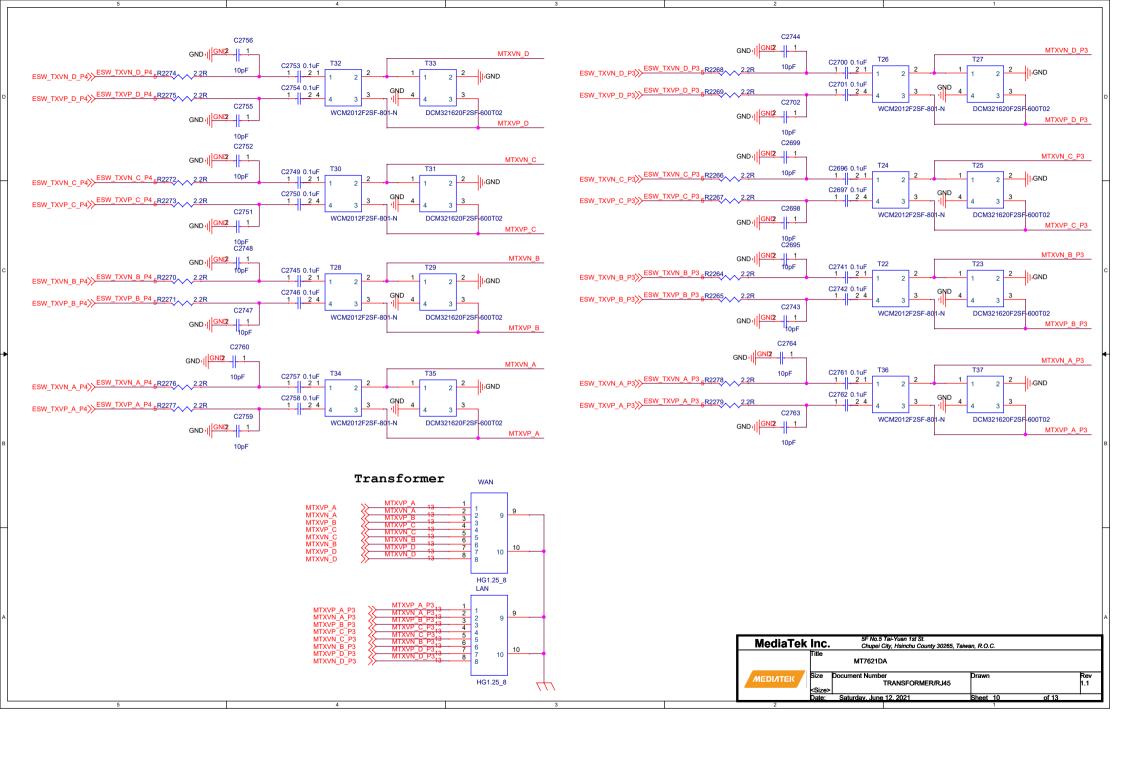
Boot Strapping						
Pin Name	Description	Value				
SPI_CLK	DRAM_FROM_EE	For non scan mode: 0: DRAM/PLL configuration from EEPROM 1: DRAM configuration from Auto Detect	For FT mode: 0: SUTIF 1: 3-wire SPI			
{SPI_CS1_N, SPI_CS0_N, MDC_}	XTAL_MODE	000: 20 MHz, Self Oscillation mode 001: 20 MHz, Single end input 010: 20 MHz, differential input 011: 40 MHz, Self Oscillation mode	100: 40 MHz, Single end input 101: 40 MHz, differential input 110: 25 MHz, Self Oscillation mode 111: 25 MHz, Single end input			
PERST_N	OCP_RATIO	0: 1:3 1: 1:4				
TXD2	DRAM_TYPE	0: DDR3 (MT7621DA w/DDR3 1Gb) 1: DDR2				
{RTS2_N, RTS3_N, TXD1, GPIO0}	CHIP_MODE[3:0]	0000: Normal / Boot from SPI 4-byte address and XTAL clock 0001: Normal / Boot from ROM (NAND page 2k+64 bytes) 0010: Normal / Boot from SPI 3-byte address 0011: Normal / Boot from SPI 4-byte address 0100: iNIC RGMI / Boot from ROM 0101: iNIC RMII / Boot from ROM 0110: iNIC RVMII / Boot from ROM 0110: iNIC RVMII / Boot from ROM 01010: iNIC RGMII / Boot from ROM 1010: iNIC RGMII / Boot from ROM 1000: iNIC RGMII / Boot from ROM and XTAL clock 1001: Normal / Boot from internal SRAM 1010: Normal / Boot from ROM (NAND page 2k+128 bytes) 1101: Normal / Boot from ROM (NAND page 4k+128 bytes) 1100: Normal / Boot from ROM (NAND page 4k+224 bytes) 1101: Debug mode 1110: Scan mode 1111: Final Test				

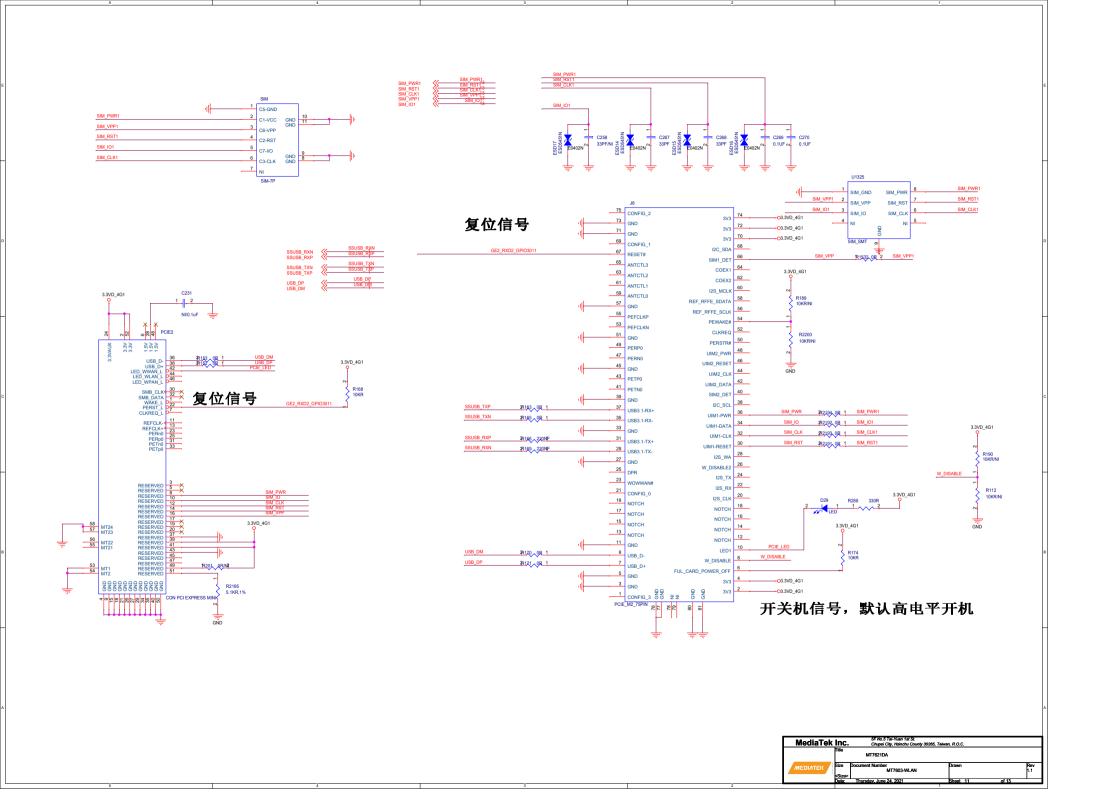
Giga Switch Hardware Trap

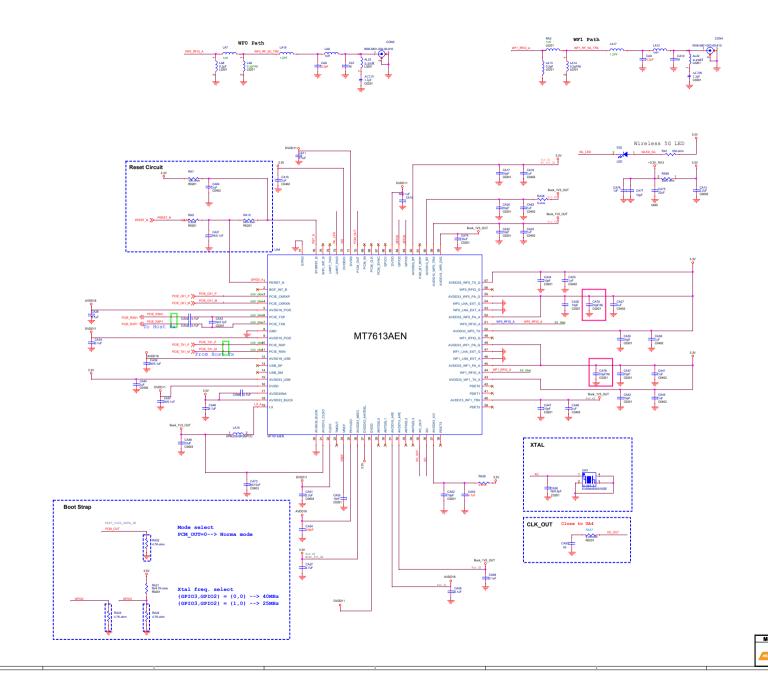
Pin Name	Trap	Fuction	Description	Defaul		
PO_LED_0	HWTRAP[0]	HT_CHIP_MODE[0]	chip mode(3:0) Ab0000: IDDQ mode Ab0001: IOTEST mode Ab0010: NANDTREE mode Ab0010: NANDTREE mode Ab0010: NANDTREE mode Ab0011: RING mode (both IO and std-cell) Ab0100: MBIST Ab0101: SCAN mode (internal) Ab0110: SCAN mode (compression) Ab0110: SCAN-COMP mode (compression) Ab0111: SCAN-MBIST-OLT mode Ab1000: AFE-OLT mode Ab1010: GPHY ADUMP mode Ab1010: GPHY ADUMP probe mode Ab1010: GPHY ADUMP probe mode Ab1010: Reserved Ab1011: bootup probe mode Ab1111: bootup probe mode Ab1111: normal mode	4'5111		
P1_LED_0	HWTRAP[1]	HT_CHIP_MODE[1]				
P2_LED_0	HWTRAP[2]	HT_CHIP_MODE[2]	\neg			
P0_LED_1	HWTRAP[3]	HT_CHIP_MODE[3]	\exists			
P3_LED_0	HWTRAP[9]	HT_XTAL_FSEL[0]	External Crystal Frequency Selection xtal freq_sel(1:0) 2*001: 20mHz 2*b10: 40MHz 2*b11: 25MHz	2'b10		
P4_LED_0	HWTRAP[10]	HT_XTAL_FSEL[1]				











MT7621DA

