

















## 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 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 0010: iNIC RGMI / Boot from ROM 0100: iNIC RGMI / Boot from ROM 0110: iNIC RTMII / Boot from ROM 0111: iNIC PHY / Boot from ROM 0100: iNIC RCMII / Boot from ROM 1000: iNIC RCMII / Boot from ROM 1001: Normal / Boot from ROM and XTAL clock 1001: Normal / Boot from ROM (NAND page 2k+128 bytes) 1011: Normal / Boot from ROM (NAND page 4k+128 bytes) 1100: Normal / Boot from ROM (NAND page 4k+224 bytes) 1110: Scan mode 1111: Final Test				

Pin Name	Trap	Fuction	Description	Defaul
P0_LED_0	HWTRAP[0]	HT_CHIP_MODE[0]	chip_mode[3:0] 4*b0001: IDDQ mode 4*b0001: IOTEST mode 4*b0001: NANDTREE mode 4*b0010: NANDTREE mode 4*b0011: RING mode (both IO and std-cell) 4*b0101: SCAN mode (internal) 4*b0101: SCAN-COMP mode (compression) 4*b0111: SCAN-MBIST-OLT mode 4*b1001: AFE-OLT mode 4*b1001: GPHY ADUMP mode 4*b1010: GPHY ADUMP mode 4*b1011: GPHY ADUMP probe mode 4*b1010: Reserved 4*b1101: Reserved 4*b1101: Dotup probe mode 4*b1101: botup probe mode 4*b1111: normal mode	4'b111
P1_LED_0	HWTRAP[1]	HT_CHIP_MODE[1]		
P2_LED_0	HWTRAP[2]	HT_CHIP_MODE[2]		
P0_LED_1	HWTRAP[3]	HT_CHIP_MODE[3]		
P3_LED_0	HWTRAP[9]	HT_XTAL_FSEL[0]	External Crystal Frequency Selection xtal_freq_sel[1:0] 2'b01: 20MHz 2'b10: 40MHz 2'b11: 25MHz	2'b10
P4 LED 0	HWTRAP[10]	HT XTAL FSEL[1]		

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