Box header definition

PIN 1

Typical 8-pin or 16-pin SPI flash signal definition

Pin Number	SPI flash Signal	SPI flash Function
1		
2	CS#	Chip Select
3	SO	Serial Data Output
4	WP#	Write Protect
5	GND	Ground
6	SI	Serial Data Input
7	SCK	Serial Clock
8	RST#/HOLD#	Reset or Hold
9	VCC	Power Supply
10		

ISP Board

MCU or Controller

Board_GND

Board_VCC

LABTOOL-S100

PIN1	
PIN2	CS#
PIN3	MISO
PIN4	WP#
PIN5	GND-PIN
PIN6	MOSI
PIN7	SCLK
PIN8	HOLD#
PIN9	VCC-PIN
PIN10	

	SPI Flash
1	CS#
2	SO
3	WP#
4	GND
5	SI
6	SCK
7	RST#/HOLD#
8	VCC

SPI Flash

CE#	1		8	VDD
SO	2		7	RST#/HOLD#
WP#	3		6	SCK
VSS	4		5	SI

J3
J3.1-J3.2: LT-S100 Power
J3.2-J3.3: Board power

LT-S100 ISP Solutions
    Method1: ISP without board power:
        (1) Set short at J3.1 and J3.2
        (2) Connect Pin2 ~ Pin9 to SPI flash interface
        (3) Connect box header PIN2 ~ PIN9 to the SPI flash foot pins.
        (4) Program the SPI flash

    Method2: ISP with board power:
        (1) Set short at J3.2 and J3.3
        (2) Connect Pin2 ~ Pin9 to SPI flash interface
        (3) Connect box header PIN2 ~ PIN9 to the SPI flash foot pins.
        (4) Program the SPI flash

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Note:
1. Set MCU in the reset status and then confirm that all SPI's pins are HIZ. Recommend series resisters are greater than 300 ohm and pull-up resisters are 4.7K ohm.
2. Connect all pins of the SPI flash to the LABTOOL-S100 else VCC pin if power supply from the board.
3. Disable instertion test function
4. Programming SPI flash