

Table 4. Boot mode when OTP BOOT_SRC bits are programmed

Boot mode	BOOT_SRC bit 3	BOOT_SRC bit 2	BOOT_SRC bit 1	BOOT_SRC bit 0	Description
Pin state	0	0	0	0	Boot source is defined by the reset state of P1_1, P1_2, P2_8 pins, and P2_9. See Table 5 .
USART0	0	0	0	1	Enter ISP mode using USART0 pins P2_0 and P2_1.
SPIFI	0	0	1	0	Boot from Quad SPI flash connected to the SPIFI interface using pins P3_3 to P3_8.
EMC 8-bit	0	0	1	1	Boot from external static memory (such as NOR flash) using CS0 and an 8-bit data bus.
EMC 16-bit	0	1	0	0	Boot from external static memory (such as NOR flash) using CS0 and a 16-bit data bus.
EMC 32-bit	0	1	0	1	Boot from external static memory (such as NOR flash) using CS0 and a 32-bit data bus.
USB0	0	1	1	0	Boot from USB0.
USB1	0	1	1	1	Boot from USB1.
SPI (SSP)	1	0	0	0	Boot from SPI flash connected to the SSP0 interface on P3_3 (function SSP0_SCK), P3_6 (function SSP0_SSEL), P3_7 (function SSP0_MISO), and P3_8 (function SSP0_MOSI) ^[1] .
USART3	1	0	0	1	Enter ISP mode using USART3 pins P2_3 and P2_4.

[1] The boot loader programs the appropriate pin function at reset to boot using either SSP0 or SPIFI.

Remark: Pin functions for SPIFI and SSP0 boot are different.

Table 5. Boot mode when OPT BOOT_SRC bits are zero

Boot mode	Pins				Description
	P2_9	P2_8	P1_2	P1_1	
USART0	LOW	LOW	LOW	LOW	Enter ISP mode using USART0 pins P2_0 and P2_1.
SPIFI	LOW	LOW	LOW	HIGH	Boot from Quad SPI flash connected to the SPIFI interface on P3_3 to P3_8 ^[1] .
EMC 8-bit	LOW	LOW	HIGH	LOW	Boot from external static memory (such as NOR flash) using CS0 and an 8-bit data bus.
EMC 16-bit	LOW	LOW	HIGH	HIGH	Boot from external static memory (such as NOR flash) using CS0 and a 16-bit data bus.
EMC 32-bit	LOW	HIGH	LOW	LOW	Boot from external static memory (such as NOR flash) using CS0 and a 32-bit data bus.
USB0	LOW	HIGH	LOW	HIGH	Boot from USB0

Table 5. Boot mode when OPT BOOT_SRC bits are zero

Boot mode	Pins				Description
	P2_9	P2_8	P1_2	P1_1	
USB1	LOW	HIGH	HIGH	LOW	Boot from USB1.
SPI (SSP)	LOW	HIGH	HIGH	HIGH	Boot from SPI flash connected to the SSP0 interface on P3_3 (function SSP0_SCK), P3_6 (function SSP0_SSEL), P3_7 (function SSP0_MISO), and P3_8 (function SSP0_MOSI) ^[1] .
USART3	HIGH	LOW	LOW	LOW	Enter ISP mode using USART3 pins P2_3 and P2_4.

[1] The boot loader programs the appropriate pin function at reset to boot using either SSP0 or SPIFI.