

3.3 Selecting the Input & Output Port Modes

The input and output ports of the SRC419x devices support seven modes of operation. Table 3–1 summarizes the mode settings for the SRC419x devices. In Master mode, the LRCK and BCK clocks are outputs, derived from the reference clock (RCKI) input. In Slave mode, the LRCK and BCK clocks are inputs, which are generated by the audio input or output device.

When ~ 4193 is set to HI, the port modes are selected using the MODE0, MODE1, and MODE2 elements of switch SW10.

When $\sim \text{SRC4193}$ is set to LO, the MODE[2:0] bits in Control Register 1 of the SRC4193 are used to select the port modes.

Table 3–1. SRC419x Input & Output Port Mode Selection

MODE2	MODE1	MODE0	Serial Port Mode
LO	LO	LO	Both Input and Output Ports are in Slave mode
LO	LO	HI	Output Port is in Master mode with RCKI = $128f_s$
LO	HI	LO	Output Port is in Master mode with RCKI = $512f_s$
LO	HI	HI	Output Port is in Master mode with RCKI = $256f_s$
HI	LO	LO	Both Input and Output Ports are in Slave mode
HI	LO	HI	Input Port is in Master mode with RCKI = $128f_s$
HI	HI	LO	Input Port is in Master mode with RCKI = $512f_s$
HI	HI	HI	Input Port is in Master mode with RCKI = $256f_s$