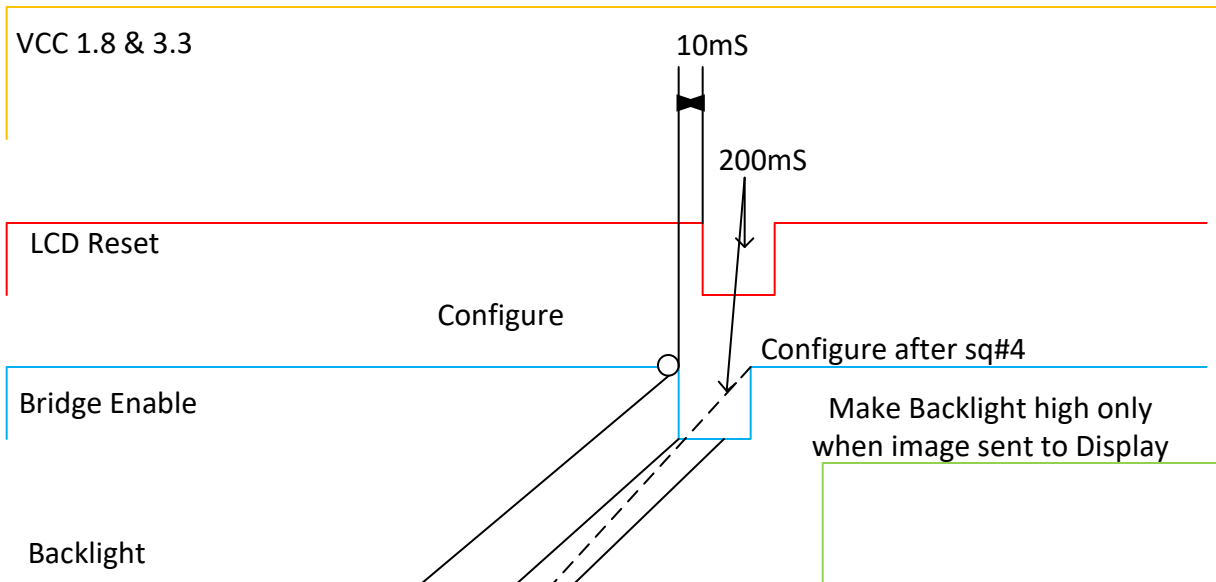




Use the following initialization sequence to setup the SN65DSI83. This sequence is required for proper operation of the device. Steps 9 through 11 in the sequence are optional.

Table 7-2. Initialization Sequence

INITIALIZATION SEQUENCE NUMBER	INITIALIZATION SEQUENCE DESCRIPTION
Init seq 1	Power on
Init seq 2	After power is applied and stable, the DSI CLK lanes MUST be in HS state and the DSI data lanes MUST be driven to LP11 state
Init seq 3	Set EN pin to Low
Wait 10 ms ⁽¹⁾	
Init seq 4	Tie EN pin to High
Wait 10 ms ⁽¹⁾	
Init seq 5	Initialize all CSR registers to their appropriate values based on the implementation (The SN65DSI8x is not functional until the CSR registers are initialized)
Init seq 6	Set the PLL_EN bit (CSR 0x0D.0)
Wait 10 ms ⁽¹⁾	
Init seq 7	Set the SOFT_RESET bit (CSR 0x09.0)
Wait 10 ms ⁽¹⁾	
Init seq 8	Change DSI data lanes to HS state and start DSI video stream
Wait 5 ms ⁽¹⁾	
Init seq 9	Read back all registers and confirm they were correctly written
Init seq 10	Write 0xFF to CSR 0xE5 to clear the error registers
Wait 1 ms ⁽¹⁾	
Init seq 11	Read CSR 0xE5. If CSR 0xE5 != 0x00, then go back to step #2 and re-initialize

(1) Minimum recommended delay. It is fine to exceed these.