

Step	Procedure	Data Transmit/Receive	
		Page1	Page2
1	<p>Unlock the OTP programming:</p> <p>Write the following data to OTP_PROG_UNLOCK1A to OTP_PROG_UNLOCK1D and OTP_PROG_UNLOCK2A to OTP_PROG_UNLOCK2D registers.</p> <ul style="list-style-type: none"> - OTP_PROG_UNLOCK1A <- data 0x02 - OTP_PROG_UNLOCK1B <- data 0xB7 - OTP_PROG_UNLOCK1C <- data 0x78 - OTP_PROG_UNLOCK1D <- data 0xBC - OTP_PROG_UNLOCK2A <- data 0x7E - OTP_PROG_UNLOCK2B <- data 0x12 - OTP_PROG_UNLOCK2C <- data 0x08 - OTP_PROG_UNLOCK2D <- data 0x6F 	OK	OK
2	<p>Check to confirm the OTP unlock procedure is successful:</p> <p>a. Read to confirm OTP_PROG_STAT[UNLOCK] = 1</p>	OK	OK
3	<p>Select the proper OTP page and start the OTP programming:</p> <p>a. If to be program page1, set OTP_PROG_CTRL[PAGESEL][PROG_GO] = 0x01.</p> <p>b. If to be program page2, set OTP_PROG_CTRL[PAGESEL][PROG_GO] = 0x03.</p>	OK	OK
4	Wait tPROG= 100ms for the OTP programming to complete.	OK	OK
5	<p>Check to ensure there is no error during OTP programming.</p> <p>The following bits are expected to be 1 after a successful OTP programming:</p> <p>a. OTP_PROG_STAT[DONE] = 1, OTP programming is done.</p> <p>No other bit will be set in this register.</p>	OK	OK
6	<p>Issue a digital reset to reload the registers with the updated OTP values:</p> <p>a. CONTROL1[SOFT_RESET] = 1</p>	OK	OK
7	Wait $t_{RST} = 1\text{msec}$ $t_{SU(WAKE_SHUT)} = 10\text{msec}$. for the soft reset to complete.	OK	OK
8	<p>1.Dummy Write to synchronize all daisy chain devices DLL ramp in write direction.</p> <p>Broadcast write OTP_ECC_DATAIN1 through OTP_ECC_DATAIN9 = 0x00(for example).</p>	OK	OK
	<p>2.Setting Up Auto-Addressing.</p> <p>a.CONTROL1[ADDR_WR] = 1.</p> <p>b.DIR0_ADDR = 0x00.(for example)</p> <p>c.COMM_CTRL[STACK_DEV] = 0, COMM_CTRL[TOP_STACK] = 1.</p>	OK	OK
	<p>3.Dummy read to synchronize all daisy chain devices DLL ramp in read direction.</p> <p>Broadcast read to read OTP_ECC_DATAIN1 through OTP_ECC_DATAIN9.</p>	OK	OK
9	<p>Check to confirm the OTP programming was successful:</p> <p>a. If page 1 is programmed, OTP_CUST1_STAT[LOADED], [PROGOK], [TRY], [OVOK], and [UVOK] bits are 1. Other bits are 0.</p>	OK	
	<p>b. If page 2 is programmed, OTP_CUST2_STAT[LOADED], [PROGOK], [TRY], [OVOK], and [UVOK] bits are 1. Other bits are 0.</p>		OK