Time		7 lus	8 115	us 10	us 11	ts 12	us 13	is 14 us
rst=x								
clk_ice=0								
clk_ULPI=0								

clk_div_ice=0								
clk_div_ULPI=0		, , , , , , , , , , , , , , , , , , , 		_		, , , , , , , , , , , , , , , , , , , 		_
clk_debounce=0								
CIK_ucbounce v								
IO_LEDs[4:0]=0	XXXXXXXXXXX		*****	000000000000000000000000000000000000000	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX4
UART								
clk_Rx=0			1					
Rx=1								
	00		X (00					
O_DATA[7:0]=xx	00							
11				 	 	 	mnn	
clk_Tx=0				<u> </u>	<u> </u>	<u> </u>		
Tx=1						<u> </u>		
I_DATA[7:0]=00	34		XXXXXFF					XXX 03
NxT=0								
send_data=0								
Rx_EMPTY=1								
Tx_FULL=0								
ULPI								
ADDR[5:0]=00	00							
PrR=0	- 00							
	34							
REG_VAL_R[7:0]=00	34							
PrW=0								
REG_VAL_W[7:0]=00	E9							
ULPI_state_r[2:0]=000	(+X0+ X0+ X001							X001
RxCMD[7:0]=00	34 X+X96						X	96
USB_DATA[7:0]=xx	xx A4		XXX XX				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4 XX xx
USB_INFO_DATA[15:0]=xxxx	xxxx (580	16	xxxx					XXXX
	· ·							
ULPI_DIR=0								
ULPI_DATA[7:0]=00	XX 00 XXXXX 00						XXX	(00
ULPI_NXT=0								
							n_	
III.DT RST=v								
ULPI_RST=x								
ULPI_RST=x ULPI_STP=0								
ULPI_STP=0								
ULPI_STP=0 Operation buffer	1							
ULPI_STP=0 Operation buffer op_stack_pull=0			M					
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx	XXXX		∭ 					
ULPI_STP=0 Operation buffer op_stack_pull=0								
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1								
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller								
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0			XXxxx					
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0								
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0	XXXX		XXxxx					
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0	XXXX (O		XXxxx					
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00	(0 10		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00	XXXX (0 10 00		XXxxx					
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00	XXXX (0 10 00		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons	(0 10 00 34		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11	XXXX (0 10 00		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11 IO_BTNs[1]=1	(0 10 00 34		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11	(0 10 00 34		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11 IO_BTNs[0]=1 IO_BTNs[0]=1	(0 10 00 34		\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11 IO_BTNs[1]=1	(0 10 00 34	7	\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				X8]
<pre>ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11 IO_BTNs[1]=1 IO_BTNs[0]=1 test_counter[31:0]=0</pre>	(0 10 00 34	7	\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11 IO_BTNs[1]=1 IO_BTNs[0]=1 test_counter[31:0]=0 Random	(0 10 00 34	7	\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
<pre>ULPI_STP=0 Operation buffer op_stack_pull=0 op_stack_msg[15:0]=xxxx op_stack_empty=1 Main controller force_send=0 MAIN_state_r[3:0]=0 MAIN_cmd_r[1:0]=00 ULPI_ADDR_r[5:0]=00 UART_Tx_DATA_r[7:0]=00 Buttons IO_BTNs[1:0]=11 IO_BTNs[1]=1 IO_BTNs[0]=1 test_counter[31:0]=0</pre>	(0 10 00 34	7	\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]