TECHNICAL DOCUMENTATION

Component name: HS102CCIT20208MBT11XQ

Family: Digital Filter

Type of circuit: Moore FSM

Number of inputs: 6 Number of outputs: 1

Reset type: asynchronous, active high Maximum clock frequency: 850 MHz

Behavioral description:

HS102CCIT20208MBT11XQ is a digital filter that filters out the input stream incoming on 2 serial single-bit transmission lines, A and B, transmitted synchronously with respect to a clock signal CLK. The filter also gets in input two control signals, C1 and C0 and provides, in the following clock cycle, an output value O as specified as follows:

C1 C0		0
0	0	A(t-8) + B(t-1)
0	1	A(t-6) - not(B(t-7))
1	0	O(t-4)
1	1	unused / don't care

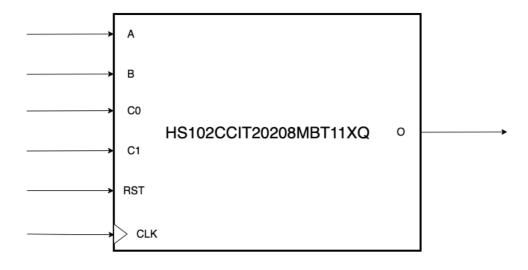


Figure 1 - HS102CCIT20208MBT11XQ top-level view