STATES	SAM	LaM	SFL
00	0	1	-
01	1	1	1
10	1	1	0
11	_	0	_

Meaning of Output Signal

Meaning of Output Signal

SAM: Select Adder Operation First A-M or Last A-M

First A-M: When you are not press start button, You will be enter input A and M.

Last A-M : The logic circuit will be start and do the adder operation and this adder operation return result. This resul Last A or Last Multip.

LAM: Load A and M at every state until last state.

SFL: Select Adder Number A OR M and -1 OR B. And Select New result or Last result for Loading.

$$SAM = N1'*N0 + N1*N0'$$

$$LAM = N1'*N0 + N1*N0' + N1'*N0'$$

S1	SO	St	R	Acmp	N1	N0
0	0	0	-	0	0	0
0	0	0	-	1	0	0
0	0	1	-	0	0	0
0	0	1	-	1	0	1
0	1	-	-	0	0	0
0	1	-	-	1	1	0
1	0	-	-	0	1	1
1	0	-	-	1	0	1
1	1	-	0	-	1	1
1	1	-	1	-	0	0

Meaning of Input Signal

Acmp: This value means that A is greater than zero it will be return 1. Otherwise It will be return 0.

St: Start Button

R: Reset Buton

N0 = S1'*S0'*St*Acmp + S1*S0'*Acmp'+S1*S0'*Acmp+S1*S0*R'

N0 = S1'*S0'*St*Acmp + S1*S0'+ S1*S0*R'

N1 = S1'*S0*Acmp+S1*S0'*Acmp'+S1*S0*R'

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