

DataPath Truth Table

Step	Operation	In R1	In R2	R1mul	R1en	R2mul
0	$R1 = X^2$	X^2	?	1	1	x
1	$R1 = AX^2$	AX^2	?	1	1	x
2	$R2 = X$	AX^2	X	x	0	0
3	$R2 = BX$	AX^2	BX	x	0	1
4	$R2 = AX^2 + BX$	AX^2	$AX^2 + BX$	x	0	0
5	$R1 = AX^2 + BX + C$	$AX^2 + BX + C$	$AX^2 + BX$	0	1	x
6	Hold	$AX^2 + BX + C$	$AX^2 + BX$	x	0	x

R2en	InSel	ASel	BSel	Done	NextStep
0	0 0	1 1	1 1	0	1
0	0 1	1 1	0 1	0	2
1	0 0	1 1	0 0	0	3
1	1 0	1 1	1 0	0	4
1	x x	0 1	1 0	0	5
0	1 1	1 1	1 0	0	6
0	x x	x x	x x	1	6