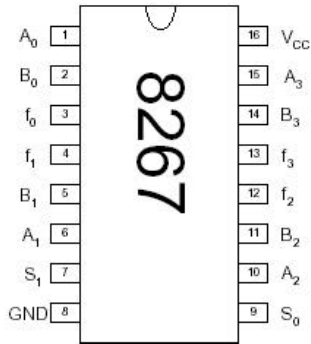


# Signetics Chips used in the Mark 8

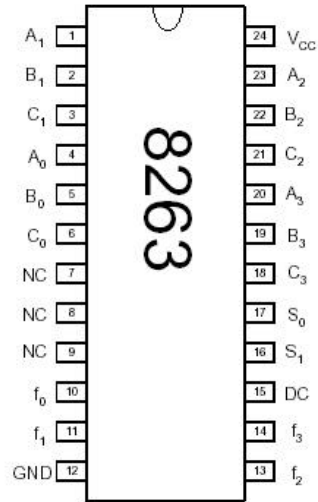
2-Input 4-BIT Digital Multiplexer



TRUTH TABLE

Select Lines		Outputs
S <sub>0</sub>	S <sub>1</sub>	f <sub>n</sub> (0,1,2,3)
0	0	B <sub>n</sub>
0	1	B <sub>n</sub>
1	0	A <sub>n</sub>
1	1	A <sub>n</sub>

3-Input 4-BIT Digital Multiplexer



TRUTH TABLE

DATA INPUT			CHANNEL SELECT		DATA COMPLEMENT	DATA OUTPUTS f <sub>n</sub> (0,1,2,3)
A <sub>n</sub>	B <sub>n</sub>	C <sub>n</sub>	S <sub>0</sub>	S <sub>1</sub>		
A <sub>n</sub>	x	x	1	1	0	A <sub>n</sub>
x	B <sub>n</sub>	x	0	1	0	B <sub>n</sub>
x	x	C <sub>n</sub>	1	0	0	C <sub>n</sub>
x	x	x	0	0	0	DC
A <sub>n</sub>	x	x	1	1	1	A <sub>n</sub>
x	B <sub>n</sub>	x	0	1	1	B <sub>n</sub>
x	x	C <sub>n</sub>	1	0	1	C <sub>n</sub>
x	x	x	0	0	1	f <sub>2</sub>
x	x	x	x	x	x	1