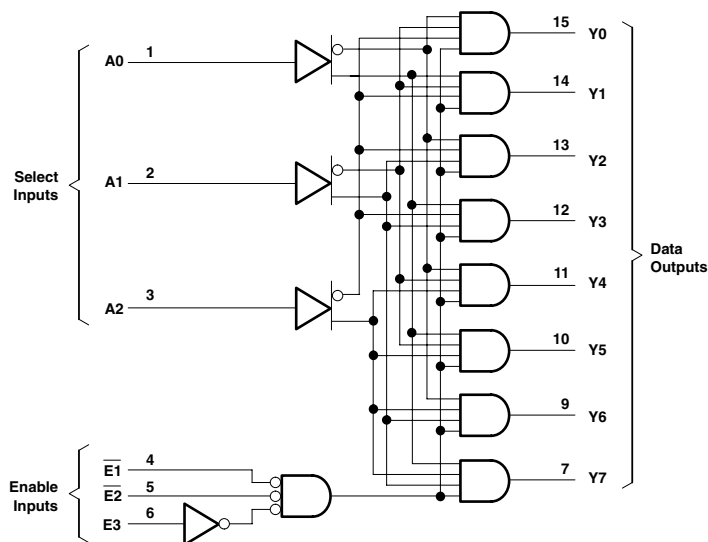


Logic Diagram (CD74AC/ACT)



# FUNCTION TABLE

INPUTS						OUTPUTS										
ENABLE			ADDRESS													
E3	E2	E1	A2	A1	A0	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
X	X	H	X	X	X	L	L	L	L	L	L	L	L	L	L	L
L	X	X	X	X	X	L	L	L	L	L	L	L	L	L	L	L
X	H	X	X	X	X	L	L	L	L	L	L	L	L	L	L	L
H	L	L	L	L	L	H	L	L	L	L	L	L	L	L	L	L
H	L	L	L	L	H	L	H	L	L	L	L	L	L	L	L	L
H	L	L	L	H	L	L	L	H	L	L	L	L	L	L	L	L
H	L	L	L	H	H	L	L	L	H	L	L	L	L	L	L	L
H	L	L	H	L	L	L	L	L	L	H	L	L	L	L	L	L
H	L	L	H	L	H	L	L	L	L	L	H	L	L	L	L	L
H	L	L	H	H	L	L	L	L	L	L	L	H	L	L	L	L
H	L	L	H	H	H	L	L	L	L	L	L	L	H	L	L	L

Note: H = High Voltage Level, L = Low Voltage Level, X = Don't Care

## ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER	MAX or MIN	CD74 HC	CD74 HCT	CD74 AC	CD74 ACT	UNIT
I <sub>CC</sub>	MAX	0.16	0.16	0.16	0.16	mA
I <sub>OH</sub>	MAX	-4	-4	-24	-24	mA
I <sub>OL</sub>	MAX	4	4	24	24	mA

## SWITCHING CHARACTERISTICS

PARAMETER	INPUT	OUTPUT	MAX or MIN	CD74 HC	CD74 HCT	CD74 AC	CD74 ACT
t <sub>PLH</sub>	Address	Y	MAX	45	53	15	15.6
t <sub>PHL</sub>				45	53	15	15.6
t <sub>PLH</sub>	$\overline{E1}$ , $\overline{E2}$ ( $\overline{G2A}$ , $\overline{G2B}$ )	Y	MAX	60	60	11.9	14.2
t <sub>PHL</sub>				60	60	11.9	14.2
t <sub>PLH</sub>	E3 (G1)	Y	MAX	60	60	16.6	13.6
t <sub>PHL</sub>				60	60	16.6	13.6

UNIT:ns