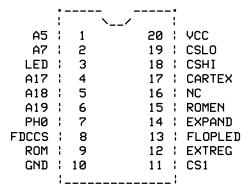


# PAL16L8BCN

## Chip diagram (DIP)



## PAL16L8BCN

### Pin Descriptions

Pin	Label	Type 
1	A5	pos,com input
2	A7	pos,com input
3	LED	pos,com input
4	A17	pos,com input
4 5 6	A18	pos,com input
	A19	pos,com input
7	PHØ	pos,com input
8	FDCCS	unused
9	ROM	pos,com input
10	GND	ground pin
11	CS1	pos,com input
12	EXTREG	neg,com output
13	FLOPLED	neg,com output
14	EXPAND	neg,com output
15	ROMEN	neg,com output
16	NC	unused
17	CARTEX	pos,com input
18	CSHI	neg,com output
19	CSLO	neg,com output
20	VCC	power pin

#### PAL Equations

; C65 Revision 2A ELMER PAL.

chip ELMER PAL16L8

A5=1 A7=2 LED=3 A17=4 A18=5 A19=6 PH0=7 FDCCS=8 ROM=9 GND=10 CS1=11 EXTREG=12 FLOPLED=13 EXPAND=14 ROMEN=15 NC=16 CARTEX=17 CSHI=18 CSLO=19 VCC=20

equations

/CSLO = /A7 \* /A5 \* /CS1
CSLO.oe = vcc
/CSHI = /A7 \* A5 \* /CS1
CSHI.oe = vcc
/ROMEN = A17 \* /A18 \* /A19 \* PH0
+ /ROM
ROMEN.oe = vcc
/EXPAND = A17 \* /A18 \* /A19
+ /CARTEX
EXPAND.oe = vcc
/FLOPLED.oe = vcc
/FLOPLED = LED
FLOPLED.oe = vcc
/EXTREG = A7 \* /CS1
EXTREG.oe = vcc

Note: These equations were taken from a Revision 2A Elmer chip with a hand-written checksum label that said "\$35A9." These equations were used to generate a new fusemap file which also gave the checksum of "\$35A9" so I believe them to be complete and correct. It is possible that other versions with different checksums exist and they may or may not be compatible with these. Use them at your own risk. Also note that these equations will most likely NOT WORK in a Revision 2B C65.

Commodore 65				
Elmer (PAL16L8)				
	Rev 2A	D #7 - C 7		
Wayne Sander	2/17/2014	Page #7 of 7		