

Name Electron Clone/Econet ;
PartNo Clone gal3 ;
Date 28/07/2025 ;
Revision 01 ;
Designer Roland Leurs/walkerworks ;
Company bygonebytes ;
Assembly None ;
Location Scotland ;
Device g16v8a ;

/* Electron Clone GAL3 CODE */

/* ***** INPUT PINS *****/

PIN 1	=	PHI	;	/*	*/
PIN 2	=	A1	;	/*	*/
PIN 3	=	A2	;	/*	*/
PIN 4	=	A3	;	/*	*/
PIN 5	=	A4	;	/*	*/
PIN 6	=	A5	;	/*	*/
PIN 7	=	A6	;	/*	*/
PIN 8	=	A7	;	/*	*/
PIN 9	=	nPGFC	;	/*	*/
PIN 11	=	RnW	;	/*	*/
PIN 13	=	RESET	;	/*	*/
PIN 14	=	INTIN	;	/*	*/

/* ***** OUTPUT PINS *****/

PIN 19	=	nCSADLC	;	/*	*/
PIN 18	=	nSTATID	;	/*	*/
PIN 17	=	nINTON	;	/*	*/
PIN 16	=	NMIENABLE	;	/*	*/
PIN 15	=	NMIOUT	;	/*	*/

/* ** EQUATIONS ****/

nCSADLC = !(nPGFC & !A7 & !A6 & A5 & !A4 & A3 & !A2);
nSTATID = !(nPGFC & !A7 & !A6 & A5 & !A4 & A3 & A2 & !A1 & RnW & PHI);
nINTON = !(nPGFC & !A7 & !A6 & A5 & !A4 & A3 & A2 & A1 & RnW & PHI);
NMIOUT = NMIENABLE & !INTIN;

NMIENABLE = RESET & !nINTON & !nSTATID & NMIENABLE # RESET & !nINTON & nSTATID #
RESET & nINTON & nSTATID & NMIENABLE;