



Introduction

The PE9601/2 & PE3236 PLL's can be programmed in either parallel, serial or direct mode. This application note describes how to configure the above PLL's in serial programming mode and describes the serial bus command lines needed to program the part using a micro-controller or IBM compatible computer.

Serial Bus Command Lines

To program the Peregrine PLL in the serial mode, a 3-wire serial control line interface will be needed. Figure 1 below shows the serial bus commands which need to be connected between the Micro-controller/PC and the Peregrine PLL.

Note: The serial inputs to the PLL are specified at 3V only. If control line inputs are 5V, a voltage divider must be used to reduce the PLL input levels down to 3V.

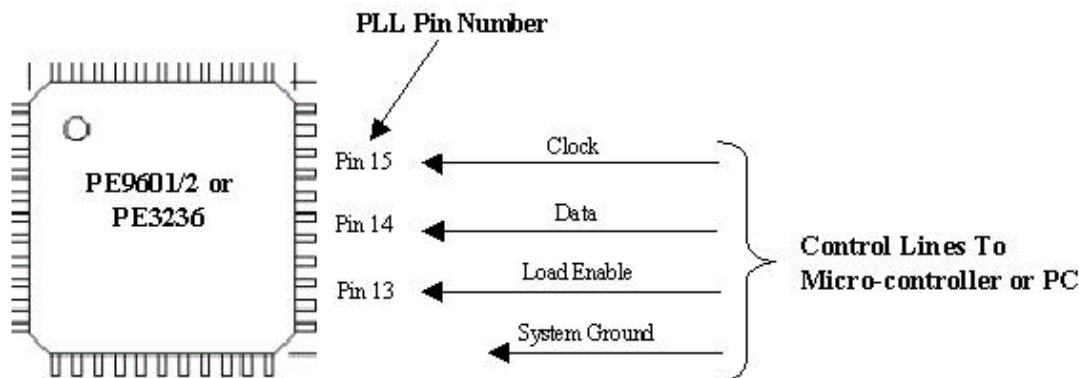


Figure 1: Serial Cable Wiring Diagram

Placing Part into Serial Mode

In addition to connecting the serial cable to the part, several other pins on the PLL must be tied to VDD or ground to put the part into serial programming mode. Table 1 below shows the pins that need to be connected and to what state.

Table 1: PLL Pin Connections

Pin Number	Pin Name	Bias Condition
16	FSELS	Ground
19	E_WR	Ground
21	Smode	VDD
22	Bmode	Ground
44	Enh	VDD



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