

# VersaClock® III Evaluation Board Setup Guide

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## To Configure the Board



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# **To Configure the Board**



## **D** To Configure the Output I/O standard

	Output Pair A		Output Pair B		Output Pair C		Output Pair D	
	Out 1	Out2	Out3	Out6	Out4	Out4b	Out5	Out5b
LVTTL	Leave R33, R34 and R35 open		Leave R37, R38 and R39 open		Leave R20, R21 and R22 open		Leave R23, R27 and R32 open	
LVDS	Leave R34 and R35 open Install 100 $\Omega$ resistor at R33		Leave R38 and R39 open Install 100 $\Omega$ resistor at R37		Leave R21 and R22 open Install 100 $\Omega$ resistor at R20		Leave R23 and R27 open Install 100 $\Omega$ resistor at R32	
LVPECL	Leave R33 and R45 open Install 50 $\Omega$ resistor at R34 and R35 and 0 $\Omega$ resistor at R44		Leave R37 and R49 open Install 50 $\Omega$ resistor at R38 and R39 and 0 $\Omega$ resistor at R48		Leave R20 and R43 open Install 50 $\Omega$ resistor at R21 and R22 and 0 $\Omega$ resistor at R42		Leave R32 and R47 open Install 50 $\Omega$ resistor at R23 and R27 and 0 $\Omega$ resistor at R46	
HCSL	Replace R3 and R4 with $33\Omega$ resistors Leave R33 and R44 open Install 50 $\Omega$ resistor at R34 and R35 and 0 $\Omega$ resistor at R45		Replace R1 and R2 with $33\Omega$ resistors Leave R37 and R48 open Install 50 $\Omega$ resistor at R38 and R39 and 0 $\Omega$ resistor at R49		Replace R7 and R8 with $33\Omega$ resistors Leave R20 and R42 open Install 50 $\Omega$ resistor at R21 and R22 and 0 $\Omega$ resistor at R43		Replace R30 and R31 with $33\Omega$ resistors Leave R23 and R46 open Install 50 $\Omega$ resistor at R23 and R27 and 0 $\Omega$ resistor at R47	

### Output Load

- The trace capacitance for each output is approximately 7pF.
- For additional capacitance, install a 8pF or any value of capacitor at C24 for Out0, C25 for Out1, C26 for Out2, C29 for Out3, C30 for Out6, C23 for Out4, C22 for Out4b, C28 for Out5, C27 for Out5b



## To Program Devices Using the Socket Board



□ Steps of Use

- Remove the two center jumpers on the board connector that would be plugged without the socket board;
- Plug in the socket board as shown above
- Place the device in the socket please align the pin-1 dot on the chip with the white dot on the socket board, see above.
- Plug in the assembled board into USB port of your PC and continue on the programming process as described previously.

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