

A-Z80 Quick Start

Download *Quartus II Web Edition*: <https://www.altera.com/download>

Depending on your Altera FPGA device, select a version: For a DE1 board, the latest free version that supported Cyclone II was Quartus 13.0 SP1.

Download *ModelSim* from the same Altera site.

You don't need to have an FPGA device to play with this design – ModelSim could do just fine to test and run various simulations!

Xilinx devices *should* work by linking with Verilog/SystemVerilog files, but I did not try it.

Install Python 2.x: <http://www.activestate.com/activepython>

How do I setup my Altera DE1 board to run Sinclair ZX Spectrum?

Flash the ZX Spectrum combined ROM package (“host\zxspectrum\rom\combined.rom”) into the flash memory at the address 0. Use the program “DE1_ControlPanel.exe” off your DE1 CD disk (you can also download it from the terasic.com site).

In Quartus: open, compile and flash project “host/zxspectrum/zxspectrum_board.qpf”.

Connect VGA, PS/2 keyboard and line-in to load Spectrum programs. You can also connect Line-out to hear the sounds (plugging in a set of earphones would also do).

How do I add A-Z80 sources into my Z80-based project?

Look up a list of files that were added to one of the sample designs:

1. “host/basic/host_de1.qsf”
2. “host/zxspectrum/zxspectrum_board.qsf”

Use every file from the “cpu” directories listed.

Still stuck?

Well, read the full *User's Guide*.

Visit www.baltazarstudios.com, post a question and/or send me an email.

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