A-Z80 Quick Start

Windows first time setup; download and install the following tools:

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

**Xilinx** *ISE Webpack*: <http://www.xilinx.com/products/design-tools/ise-design-suite.html>

For Altera DE1 board, the latest free version that supported Cyclone II was Quartus 13.0 SP1.

Download *ModelSim* from the same Altera site.

Python 3.5.x: <https://www.python.org/downloads/>

*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 to address 0. Use “DE1\_ControlPanel.exe” utility from your DE1 CD disk (you can also download it from 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. Plug in a set of earphones to Line-out.

You can select from thousands of ZX Spectrum games and load them by using *Baltazar Studios’* [PlayZX](http://play.google.com/store/apps/details?id=com.baltazarstudios.playzxtapes) app which was built just for this purpose.

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

Run Python script “cpu/export.py” which will copy all relevant files to a directory of your choice.

All A-Z80 files needed are listed in “cpu/top-level-files.txt”.

Look up a list of files needed in one of the sample designs in the “host” folder.

*Still stuck?*

Read the full *User’s Guide*.

Visit [www.baltazarstudios.com](http://www.baltazarstudios.com), post a question and/or send me an email.

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