

language this semester: english

SOFTWARE

Software you need:

- Editor (eg. notepad++, usually free)
- Simulation tool (Modelsim or other VHDL-Simulator, free) <https://fpgasoftware.intel.com/?edition=lite>
- Synthesis tool (Quartus Prime Lite, free) <https://fpgasoftware.intel.com/?edition=lite>
- Arrow Programmer 2.4 (find here: https://shop.trenz-electronic.de/de/TEI0001-03-16-C8A-MAX1000-IoT-Maker-Board-16-kLE-32-MByte-SDRAM?path=Trenz_Electronic/Modules_and_Module_Carriers/2.5x6.15/TEI0001/Driver/Arrow_USB_Programmer)
- Terminal program like Xterm or Hyperterm or similar for RS 232 communication, usually free
- c++ programming software
- A latex software, free available

Some software (Modelsim, Quartus, Notepad....) is available by appsanwhere as well. See appsanywhere.rwu.de

HARDWARE

Hardware you will get:

Evaluation board will be:

MAX 1000 IoT Maker board 16 kLE, 32 MByte SDRAM

<https://shop.trenz-electronic.de/de/TEI0001-03-16-C8A-MAX1000-IoT-Maker-Board-16-kLE-32-MByte-SDRAM>

What FPGA will be targeted on this board?

Target technolog: MAX 1000 Family;

Device: 10M16SAU169C8G (may change due to need of buying more)

RS232 adapter

PMOD RS232 converter

<https://shop.trenz-electronic.de/en/23331-Pmod-RS232-Serial-converter-interface>

USB to RS232 converter;

similar to this:

<https://store.digilentinc.com/usb-to-serial-adapter-cable/>