

## ModelSim-Intel FPGA Starter Edition Installation Guide

Requirements: Windows 10/11 (64bit) or Linux (64bit), 1.2GB disc space

### 1. Download ModelSim-Intel FPGA Starter Edition

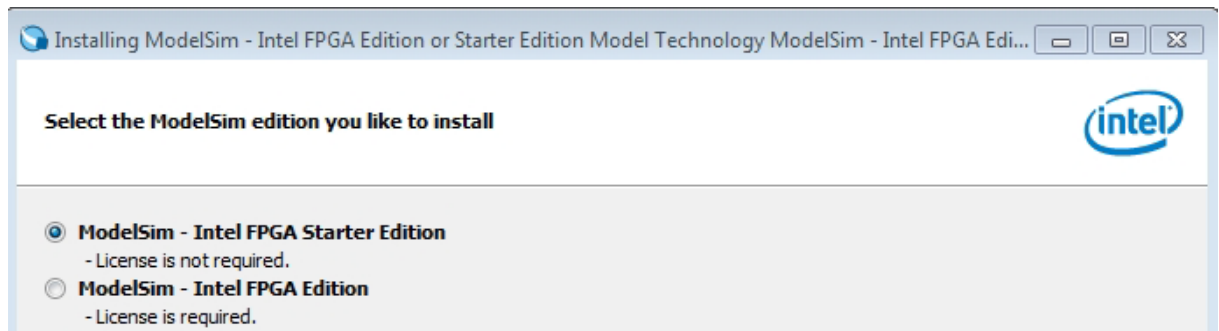
Windows: <https://cloud.h-da.de/s/a7SW5RcfWHY2GHG>

ModelSimSetup-20.1.1.720-windows.exe.zip (1.2 GB)

Linux: <https://cloud.h-da.de/s/Qq9SpaMz7ZfZxPH>

ModelSimSetup-20.1.1.720-linux.run.zip (1.4 GB)

### 2. Install ModelSim-Intel FPGA Starter Edition



### 3. Run Simulation on ModelSim:

- Create new project
- Add VHDL file to project
- Compile design
- Run simulation

using VHDL-model of XOR-gate from slide 18:

```
ENTITY xor_gate IS
PORT ( a, b : IN BIT ;
      c : OUT BIT ) ;
END xor_gate;

ARCHITECTURE conditional OF xor_gate IS
BEGIN
c <= '0' WHEN a = '0' AND b = '0' ELSE
    '1' WHEN a = '0' AND b = '1' ELSE
    '1' WHEN a = '1' AND b = '0' ELSE
    '0' WHEN a = '1' AND b = '1' ELSE
    '0';
END conditional;
```