

TE0820 Reference Designs

Description for the newest Design Version

Reference Designs	Demo Designs	Tutorial Designs
• TE0820 Test Board ◦ Vitis/Vivado 2023.2 ◦ PetaLinux ◦ SD ◦ ETH ◦ USB ◦ I2C ◦ RTC ◦ FMeter ◦ MAC from EEPROM ◦ User LED (PCB REV03 only) ◦ Modified FSBL for SI5338 programming	• TE0820 TD TEF1002 (only for use with TEF1002 Carrier) ◦ Vitis/Vivado 2019.2 ◦ PetaLinux ◦ PCIe (endpoint) ◦ SATA ◦ SD ◦ ETH ◦ USB ◦ I2C ◦ RTC ◦ FMeter ◦ MAC from EEPROM ◦ User LED (PCB REV03 only) ◦ Modified FSBL for SI5338 programming ◦ Special FSBL for QSPI programming	• TE0820 test board Vitis AI 3.0 Tutorial ◦ AMD Vitis 2022.2 ◦ Vitis AI 3.0 ◦ Vitis custom extensible platform ◦ PetaLinux 2022.2 extension with AI 3.0 for Vitis ◦ Vector addition ◦ ResNet50 on DPU ◦ Vehicleclassification on DPU with video input from USB camera
	• TE0820 HDMI701 (only for use with TE0701 Carrier) ◦ Vitis/Vivado 2019.2 ◦ PetaLinux ◦ Linux Debian 9 (Stretch) or Linux Ubuntu 18.04 (Bionic Beaver) ◦ HDMI ◦ SD ◦ ETH (use EEPROM MAC) ◦ USB ◦ I2C ◦ TE0701 ◦ RTC ◦ Modified FSBL for SI5338 programming and DMA (for HDMI) ◦ Special FSBL for QSPI programming	

Basic Documentation and Notes

- [AMD Development Tools](#)
 - [TE Board Part Files](#)
 - [TE Board Part Installation Options](#)
- [PetaLinux KICKstart](#)
- [TE Reference Design - Project Delivery](#)

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