

TE0807 Test Board

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Date	System Design - Vivado	Project Built	Authors	Description
2023-08-17	4.1 PS Interfaces 4.2 Constraints 4.2.1 Basic module constraints 4.2.2 Design specific strain	TE0807-test_board-vivado_2022.2-build_6_20230817092607.zip	Manuela Strücker	2022.2 update - new assembly variants
2022-10-17	5.1.1 zynqmp_fsb 5.1.2 hello_te0807	TE0807-test_board_noprebuilt-vivado_2022.2-build_6_20230817092607.zip	Manuela Strücker	script update
2022-09-12	7.9 REACH, RoHS and WEEE	TE0807-test_board_noprebuilt-vivado_2021.2-build_15_20220912085423.zip	Manuela Strücker	update board part file compatible to Vivado 2021.2.1
2022-05-18		TE0807-test_board_noprebuilt-vivado_2021.2-build_14_20220518130935.zip	Manuela Strücker	2021.2 update - new assembly variants - update document style

2021-02-08	2020.2	TE0807-test_board_noprebui lt-vivado_2020.2- build_1_202102080 93457.zip TE0807-test_board- vivado_2020.2- build_1_202102080 93443.zip	John Hartfiel	2020.2 update
2020-10-06	2019.2	TE0807-test_board_noprebui lt-vivado_2019.2- build_15_20201006 121447.zip TE0807-test_board- vivado_2019.2- build_15_20201006 121342.zip	John Hartfiel	new assembly variants
2020-03-25	2019.2	TE0807-test_board_noprebui lt-vivado_2019.2- build_8_202003250 82749.zip TE0807-test_board- vivado_2019.2- build_8_202003250 82730.zip	John Hartfiel	script update
2020-01-27	2019.2	TE0807-test_board_noprebui lt-vivado_2019.2- build_4_202001270 75704.zip TE0807-test_board- vivado_2019.2- build_4_202001270 75454.zip	John Hartfiel	2019.2 update - Vitis support
2019-05-22	2018.3	TE0807-test_board_noprebui lt-vivado_2018.3- build_05_20190522 132408.zip TE0807-test_board- vivado_2018.3- build_05_20190522 132356.zip	John Hartfiel	- custom FSBL - Note: Prebuilt for ES2 version not included
2019-02-08	2018.2	TE0807-test_board_noprebui lt-vivado_2018.2- build_04_20190207 111539.zip TE0807-test_board- vivado_2018.2- build_04_20190207 111524.zip	John Hartfiel	new assembly variant
2018-09-04	2018.2	TE0807-test_board_noprebui lt-vivado_2018.2- build_03_20180904 121458.zip TE0807-test_board- vivado_2018.2- build_03_20180904 121522.zip	John Hartfiel	- additional notes for FSBL generated with Win SDK - changed *.bif

2018-01-18	2017.4	TE0807-test_board_noprebuilt-vivado_2017.4-build_05_20180118152119.zip TE0807-test_board-vivado_2017.4-build_05_20180118152104.zip	John Hartfiel	rework Board Part Files
2017-11-14	2017.2	TE0807-test_board_noprebuilt-vivado_2017.2-build_05_20171114115524.zip TE0807-test_board-vivado_2017.2-build_05_20171114115511.zip	John Hartfiel	initial release

Design Revision History

Release Notes and Know Issues

Issues	Description	Workaround	To be fixed version
Xilinx Software	Incompatibility of board files for ZynqMP with eMMC activated between 2021.2 and 2021.2.1 patch, see Xilinx Forum Request	use corresponding board files for the Vivado versions	--
QSPI Flash	Flash programming is not supported with boot mode QSPI or SD.	If flash programming fails, configure device for JTAG boot mode and try again or use older Vivado Versions for programming. (Vivado 2020.2 or 2019.2)	--

Known Issues

Requirements

Software

Software	Version	Note
Vitis	2022.2	needed, Vivado is included into Vitis installation

Software

Hardware

Basic description of TE Board Part Files is available on [TE Board Part Files](#).

Complete List is available on <design name>/board_files/*_board_files.csv

Design supports following modules:

Module Model	Board Part Short Name	PCB Revision Support	DDR	QSPI Flash	EMMC	Others	Notes

TE0807-01-07EV-ES	es2_2gb	REV01	2GB	64GB	NA	NA	Not longer supported by vivado
TE0807-02-07EV-1E	7ev_1e_4gb	REV02	4GB	64GB	NA	NA	NA
TE0807-02-07EV-1EK	7ev_1e_4gb	REV02	4GB	64GB	NA	NA	with heat sink
TE0807-02-4BE21-A	4eg_1e_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-7DE21-A	7ev_1e_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-7DI21-C	7ev_1i_4gb	REV02	4GB	128MB	NA	NA	without encryption
TE0807-02-7DI21-A	7ev_1i_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-4AI21-A	4cg_1i_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-5AI21-A	5cg_1i_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-7AI21-A	7cg_1i_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-7DI24-A	7ev_1i_4gb	REV02	4GB	512MB	NA	NA	NA
TE0807-02-7DE21-AK	7ev_1e_4gb	REV02	4GB	128MB	NA	NA	with heat sink
TE0807-02-4AI21-X	4cg_1i_4gb	REV02	4GB	128MB	NA	NA	U41 replaced with diode
TE0807-02-4BE21-AK	4eg_1e_4gb	REV02	4GB	128MB	NA	NA	with heat sink
TE0807-02-7DI21-AK	7ev_1i_4gb	REV02	4GB	128MB	NA	NA	with heat sink
TE0807-02-5DI21-A	5ev_1i_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-02-7NE21-A	7ev_3e_4gb	REV02	4GB	128MB	NA	NA	NA
TE0807-03-5DI21-A	5ev_1i_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-7NE21-A	7ev_3e_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-4AI21-X	4cg_1i_4gb	REV03	4GB	128MB	NA	NA	U41 replaced with diode
TE0807-03-4AI21-A	4cg_1i_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-4AI21-C	4cg_1i_4gb	REV03	4GB	128MB	NA	NA	without encryption
TE0807-03-4BE21-A	4eg_1e_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-5AI21-A	5cg_1i_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-7AI21-A	7cg_1i_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-7DE21-A [†]	7ev_1e_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-7DE21-AK	7ev_1e_4gb	REV03	4GB	128MB	NA	NA	with heat sink
TE0807-03-7DI21-A	7ev_1i_4gb	REV03	4GB	128MB	NA	NA	NA

TE0807-03-7DI21-C	7ev_1i_4gb	REV03	4GB	128MB	NA	NA	without encryption
TE0807-03-7DI24-A	7ev_1i_4gb	REV03	4GB	512MB	NA	NA	NA
TE0807-03-4BE21-AK	4eg_1e_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-S004	7ev_1e_me_8gb	REV03	8GB	128MB	NA	NA	CAO
TE0807-03-S005	7ev_1i_4gb	REV03	4GB	512MB	NA	NA	CAO
TE0807-03-S008	7ev_1i_me_8gb	REV03	8GB	128MB	NA	without PLL	CAO Micron DDR
TE0807-03-S014	4eg_1e_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-7DE21-AZ	7ev_1e_4gb	REV03	4GB	128MB	NA	NA	NA
TE0807-03-S011	7ev_1i_me_8gb	REV03	8GB	128MB	NA	without PLL	CAO Micron DDR

*used as reference

Hardware Modules

Note: Design contains also Board Part Files for TE0807+TEBF0808 configuration, this board part files are not used for this reference design.

Design supports following carriers:

Carrier Model	Notes
Custom PCB	use simple Board Part files, if MIO connected is different to TEBF0808
TEBF0808*	Used as reference carrier.
TEBT0808-01	Change UART0 to UART1 (MIO68..69) and regenerate design

*used as reference

Hardware Carrier

Additional HW Requirements:

Additional Hardware	Notes
---	---

*used as reference

Additional Hardware

Content

For general structure and usage of the reference design, see [Project Delivery - AMD devices](#)

Design Sources

Type	Location	Notes
Vivado	<project folder>\block_design <project folder>\constraints <project folder>\ip_lib <project folder>\board_files	Vivado Project will be generated by TE Scripts
Vitis	<project folder>\sw_lib	Additional Software Template for Vitis and apps_list.csv with settings automatically for Vitis app generation

Design sources

Additional Sources

Type	Location	Notes
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Additional design sources

Prebuilt

File	File-Extension	Description
BIF-File	*.bif	File with description to generate Bin-File
BIN-File	*.bin	Flash Configuration File with Boot-Image (Zynq-FPGAs)
BIT-File	*.bit	FPGA (PL Part) Configuration File
DebugProbes-File	*.ltx	Definition File for Vivado/Vivado Labtools Debugging Interface
Diverse Reports	---	Report files in different formats
Hardware-Platform-Description-File	*.xsa	Exported Vivado hardware description file for Vitis and PetaLinux
LabTools Project-File	*.lpr	Vivado Labtools Project File
Software-Application-File	*.elf	Software Application for Zynq or MicroBlaze Processor Systems

Prebuilt files (only on ZIP with prebuilt content)

Download

Reference Design is only usable with the specified Vivado/Vitis/PetaLinux version. Do never use different Versions of Xilinx Software for the same Project.

Reference Design is available on:

- [TE0807 "Test Board" Reference Design](#)

Design Flow



Reference Design is available with and without prebuilt files. It's recommended to use TE prebuilt files for first launch.

Trenz Electronic provides a tcl based built environment based on Xilinx Design Flow.

See also:

- [AMD Development Tools#XilinxSoftware-BasicUserGuides](#)
- [Vivado Projects - TE Reference Design](#)
- [Project Delivery](#).

The Trenz Electronic FPGA Reference Designs are TCL-script based project. Command files for execution will be generated with "_create_win_setup.cmd" on Windows OS and "_create_linux_setup.sh" on Linux OS.

TE Scripts are only needed to generate the vivado project, all other additional steps are optional and can also be executed by Xilinx Vivado/Vitis GUI. For currently Scripts limitations on Win and Linux OS see: [Project Delivery Currently limitations of functionality](#)



Caution! Win OS has a 260 character limit for path lengths which can affect the Vivado tools. To avoid this issue, use Virtual Drive or the shortest possible names and directory locations for the reference design (for example "x:\<project folder>")

1. Run _create_win_setup.cmd/_create_linux_setup.sh and follow instructions on shell:

_create_win_setup.cmd/_create_linux_setup.sh

```
-----Set design paths-----
-- Run Design with: _create_win_setup
-- Use Design Path: <absolute project path>
-----
-----TE Reference
Design-----
-----
-- (0) Module selection guide, project creation...prebuilt export...
-- (1) Create minimum setup of CMD-Files and exit Batch
-- (2) Create maximum setup of CMD-Files and exit Batch
-- (3) (internal only) Dev
-- (4) (internal only) Prod
-- (c) Go to CMD-File Generation (Manual setup)
-- (d) Go to Documentation (Web Documentation)
-- (g) Install Board Files from Xilinx Board Store (beta)
-- (a) Start design with unsupported Vivado Version (beta)
-- (x) Exit Batch (nothing is done!)
----
Select (ex.: '0' for module selection guide):
```

2. Press 0 and enter to start "Module Selection Guide"
3. Create project and follow instructions of the product selection guide, settings file will be configured automatically during this process.
 - optional for manual changes: Select correct device and Xilinx install path on "design_basic_settings.cmd" and create Vivado project with "vivado_create_project_gui mode.cmd"



Note: Select correct one, see also [Vivado Board Part Flow](#)

Important: Use Board Part Files, which **did not** end with *_tebf0808

4. Create hardware description file (.xsa file) and export to prebuilt folder

run on Vivado TCL (Script generates design and export files into "<project folder>\prebuilt\hardware\<short name>")

```
TE::hw_build_design -export_prebuilt
```



Using Vivado GUI is the same, except file export to prebuilt folder.

5. Generate Programming Files with Vitis

run on Vivado TCL (Script generates applications and bootable files, which are defined in "test_board\sw_lib\apps_list.csv")

```
TE::sw_run_vitis -all
TE::sw_run_vitis (optional; Start Vitis from Vivado GUI or start
with TE Scripts on Vivado TCL)
```



TCL scripts generate also platform project, this must be done manually in case GUI is used. See [Vitis](#)

Launch

Programming



Check Module and Carrier TRMs for proper HW configuration before you try any design.

Reference Design is also available with prebuilt files. It's recommended to use TE prebuilt files for first launch.

Xilinx documentation for programming and debugging: [Vivado/Vitis/SDSoC-Xilinx Software Programming and Debugging](#)

Get prebuilt boot binaries

1. Run _create_win_setup.cmd/_create_linux_setup.sh and follow instructions on shell
2. Press 0 and enter to start "Module Selection Guide"
 - a. Select assembly version
 - b. Validate selection
 - c. Select create and open delivery binary folder

 Note: Folder "<project folder>_binaries_<Article Name>" with subfolder "boot_<app name>" for different applications will be generated

QSPI-Boot mode

1. Connect JTAG and power on carrier with module
2. Open Vivado Project with "vivado_open_existing_project_gui mode.cmd" or if not created, create with "vivado_create_project_gui mode.cmd"

run on Vivado TCL (Script programs BOOT.bin on QSPI flash)

```
TE::pr_program_flash -swapp hello_te0807
```

SD-Boot mode

This does not work, because SD controller is not selected on PS.

JTAG

Load configuration and Application with Vitis Debugger into device

Usage

QSPI Boot:

1. Prepare HW like described on section [Programming](#)
2. Connect UART USB (most cases same as JTAG)
3. Select QSPI as Boot Mode

 Note: See TRM of the Carrier, which is used.

4. Power On PCB
 1. ZynqMP Boot ROM FSBL from QSPI into OCM,
 2. FSBL init the PS, programs the PL using the bitstream and loads PMU, ATF and U-boot from QSPI into DDR

System Design - Vivado

Block Design



Block Design

PS Interfaces

Activated interfaces:

Type	Note
DDR	
QSPI	MIO
UART0	MIO, please select other one, if you have connected UART to second controller or other MIO
SWDT0..1	
TTC0..3	

PS Interfaces

Constrains

Basic module constrains

_i_bitgen.xdc
<pre>set_property BITSTREAM.GENERAL.COMPRESS TRUE [current_design] set_property BITSTREAM.CONFIG.UNUSEDPIN PULLNONE [current_design]</pre>

Design specific constrain

Not needed.

Software Design - Vitis

For Vitis project creation, follow instructions from:

[Vitis](#)

Application

Template location: "<project folder>\sw_lib\sw_apps\"

zynqmp_fsbl

TE modified 2022.2 FSBL

General:

- Modified Files: xfsbl_main.c, xfsbl_hooks.h/.c, xfsbl_board.h/.c (search for 'TE Mod' on source code)
- Add Files: te_xfsbl_hooks.h/.c (for hooks and board)
- General Changes:
 - Display FSBL Banner and Device Name

hello_te0807

Hello TE0807 is a Xilinx Hello World example as endless loop instead of one console output.

Additional Software

No additional software is needed.

Appx. A: Change History and Legal Notices

Document Change History

To get content of older revision go to "Change History" of this page and select older document revision number.

Date	Document Revision	Authors	Description
Error rendering macro 'page-info' Ambiguous method	Error rendering macro 'page-info' Ambiguous method	Error rendering macro 'page-info' Ambiguous method	• 2022.2 update • new assembly variants

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2022-10-17	v.21	Manuela Strücker	script update
2022-09-12	v.20	Manuela Strücker	update board part file compatible to Vivado 2021.2.1
2022-09-06	v.19	Manuela Strücker	2021.2 update - new assembly variants - update document style
2021-02-08	v.15	John Hartfiel	- new assembly variants - document style update
2020-10-06	v.14	John Hartfiel	new assembly variants
2020-03-25	v.13	John Hartfiel	script update
2020-01-27	v.12	John Hartfiel	- Release 2019.2 - new assembly variants
2019-05-22	v.10	John Hartfiel	Release 2018.3
2019-02-07	v.9	John Hartfiel	new assembly variant
2018-09-04	v.7	John Hartfiel	Release 2018.2
2018-02-08	v.5	John Hartfiel	Release 2017.4
2017-11-14	v.3	John Hartfiel	Release 2017.2
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REACH, RoHS and WEEE

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Error rendering macro 'page-info'

Ambiguous method overloading for method jdk.

proxy279.\$Proxy4022#hasContentLevelPermission. Cannot resolve which method to invoke for [null, class java.lang.String, class com.atlassian.confluence.pages.Page] due to overlapping prototypes between: [interface com.atlassian.confluence.user.

ConfluenceUser, class java.lang.String, class com.atlassian.confluence.core.

ContentEntityObject] [interface com.atlassian.user.User, class java.lang.String, class com.atlassian.confluence.core.ContentEntityObject]