



Product Change Notification

Trenz Electronic USB FX2 FPGA modules series

Notification Title

Trenz Electronic USB FX2 FPGA modules series, new firmware released.

Notification Type

Firmware Revision

Notification Entity

minor change	major change
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Products Affected

Trenz Electronic TE0300 series
 Trenz Electronic TE0320 series
 Trenz Electronic TE0630 series

Description of Change

Cypress FX2 microcontroller firmware updated from version 2.02 to version 3.00. VID/PID changed to "Trenz Electronic(0x0BD0)/0x0300. Added actions in case FX2 USB microcontroller does not control FPGA power sources (PON).

Reason for Change

Product being updated with newer firmware which solves FPGA boot stability problem in case FX2 USB microcontroller does not control FPGA power sources (PON). New drivers for Microsoft Windows 7 released.

Impact

Improved stability of boot sequence. Microsoft Windows 7 compatibility.

Proposed Countermeasures

If the FX2 USB microcontroller on your TE0300, TE0320 or TE0630 module runs a firmware revision 2.2 or lower, and/or you are going to use the new Trenz Electronic drivers for Microsoft Windows 7, you shall update the firmware to version 3.0.

Defining firmware version

Execute sample memory test available here:
<https://github.com/Trenz-Electronic/TE-USB-Suite/>.

- Press "1" to show number of connected modules.
- Press "2" to connect to module No 1.
- Press "6" to show FX2 firmware version.
- Press "0" to exit.

Firmware update

Detailed description of firmware upgrade procedure can be found in [UM-Firmware.pdf](#).

- Download firmware¹
 - TE_USB_FX2-v03.00.iic or TE_USB_FX2-v03.00.bin for new designs
 - TE_USB_FX2-v03.00.DW.iic or TE_USB_FX2-v03.00.DW.bin for legacy designsfrom http://www.trenz-electronic.de/download/d0/Trenz_Electronic/d1/TE-USB-Suite/d2/firmware.html
- Download FirmwareUpgradeTool from http://www.trenz-electronic.de/download/d0/Trenz_Electronic/d1/TE-USB-Suite/d2/tools.html
- Run USBFirmwareUpgradeTool.exe
- Select device to update
- Check "USB EEPROM" checkbox.
- Uncheck "FPGA FLASH" checkbox.
- Press "..." button and select FWU file.
- Press "Upload" button.
- Wait for the completion.
- Reboot module.

Expected Sample Availability Date

First Availability of Post-Conversion Product 07 June 2012.

Expected Production Availability Date

First Availability of Post-Conversion Product 07 June 2012.

¹ *.iic files are intended for Cypress USB Console tool; bin files are intended for USB Firmware upgrade tool.

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