TE API Commands (FW APIs)

Overview

Beyond the SW APIs (used for the communication between the host computer and the USB FX2 microcontroller), another set of firmware (FW) API exists: this set is called "API Commands". The SW program running on host computer sends API commands to the USB FX2 microcontroller and/or Xilinx MicroBlaze embedded processor by means of the following SW API functions:

- generation 2: TE0300_*SendCommand(…, command, …)*;
- generation 3: TE_USB_FX2_*SendCommand(..., command, …)*.

The USB FX2 microcontroller and/or Xilinx MicroBlaze soft embedded processor is(/are) able to execute the command. Skilled users can extend the FW API Command modifying USB FX2 microcontroller firmware (and MicroBlaze SW if necessary, but in many case is not necessary).

> ⚠ Even when the API command is executed by Xilinx MicroBlaze, it is the USB FX2 microcontroller to receive and dispatch the command to Xilinx MicroBlaze. For more information see here.
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> Even when the SPI Flash command is executed, it is the USB FX2 microcontroller to receive and dispatch the command to SPI Flash. For more information see here.