

C# TE_USB_FX2 API reference manual

This documentation describes the SW API supported by standard Trenz Electronic FPGA modules (TE USB FX2 FPGA module) equipped with Cypress EZ-USB FX2 microcontroller (currently: TE0300, TE0320 and TE0630).

TE USB FX2 module is able to communicate with host computer's USB using

- SW .NET (C#) API (TE_USB_FX2_CyUSB.dll) and
- [TE USB API Commands](#).



In order to provide a user interface for driver functions, dynamic link library "TE_USB_FX2_CyUSB.dll" and "CyUSB.dll" have been used.

C# applications or managed C++ applications (running on host computer) use directly TE_USB_FX2_CyAPI.dll based on CyUSB.dll.

To avoid copying back and forth large amount of data between these two DLLs, data is passed by reference and not by value.

Host computer requirements

When using TE_USB_FX2_CyUSB.dll API, a host computer should meet the following requirements:

- Operating system: Microsoft Windows 2000, Microsoft Windows XP, Microsoft Windows Vista, Microsoft Windows 7
- USB driver: Trenz Electronic USB FX2 driver
- Interface: USB 2.0 host
- .NET Framework version 4.0.30319

See your module user manual for dedicated driver installation instructions.