

# PCN-2013080600 TE USB FX2 Technology Stack Generation Upgrade

## Notification title

TE USB FX2 Technology Stack Generation 3 released.

## Notification type

Firmware release, device driver release, API release, application code release, documentation release.

## Notification entity

Major change.

## Products affected

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

Trenz Electronic series	Trenz Electronic part number	base serial number
<b>TE0300</b>		
TE0300	TE0300-01BM	439080
TE0300	TE0300-01BMLP	439782
TE0300	TE0300-01I	
TE0300	TE0300-01IBM	
TE0300	TE0300-01BMLP	435267
TE0300	TE0300-01M	
<b>TE0320</b>		
TE0320	TE0320-00-EV02	
TE0320	TE0320-00-EV02B	438991
TE0320	TE0320-00-EV02I	435162
TE0320	TE0320-00-EV02IB	438971
<b>TE0630</b>		
TE0630	TE0630-00I	438891
TE0630	TE0630-00IBF	438903

TE0630	TE0630-00IV	438874
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## Description of change

- changed USB VID/PID from DEWESoft's to Trenz Electronic's
- changed device driver from DEWESoft's to Trenz Electronic's based on Cypress Semiconductor's
- certified Trenz Electronic's device driver
- changed C++ API from DEWESoft's to Trenz Electronic's based on Cypress Semiconductor's
- added Trenz Electronic's .NET API based on Cypress Semiconductor's
- changed C++ sample applications from DEWESoft's to Trenz Electronic's based on Trenz Electronic's API
- added Trenz Electronic's .NET sample applications based on Trenz Electronic's API
- added documentation about generation 3
- added documentation about migration to generation 3

## Reason for change

- USB VID was a generic third-party's; it is now the official Trenz Electronic's vendor ID (0x0BD0)
- device drivers were proprietary DEWESoft's; they are now Trenz Electronic's based on mainstream Cypress Semiconductor's
- device driver were uncertified DEWESoft's; they are now certified Trenz Electronic's
- C++ API were proprietary DEWESoft's; they are now proprietary Trenz Electronic's based on mainstream Cypress Semiconductor's C++ API
- proprietary Trenz Electronic's .NET API are based on mainstream Cypress Semiconductor's .NET API

## Impact

Firmware, device driver, API and application code are [incompatible between generations](#).

## Proposed countermeasures

Firmware, device driver, API and application code shall belong to the [same generation](#).

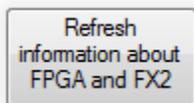
After determining what generation your module belongs to, you have to migrate firmware, device driver, API and application code to the other generation.

## 1) What generation does my module belong to?

Start [OpenFutNet.exe](#). The FX2 microcontroller firmware major version corresponds to your generation.

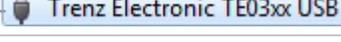
Latest firmware version flashed on FX2 microcontroller EEPROM	Not yet retrieved	Not yet retrieved	Not yet retrieved
	Type	Major Version	Minor Version

You might have to press the "Refresh" button.



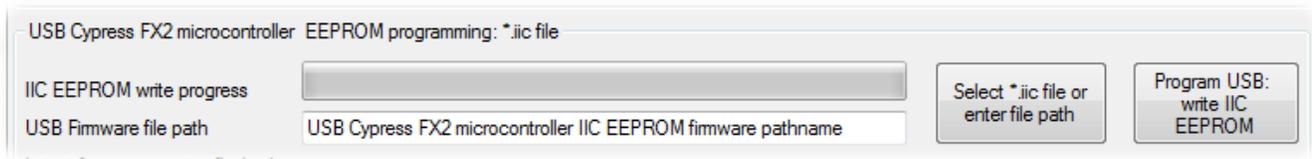
Open [Device Manager](#) and check if your operating system registered the device consistently with the generation determined by OpenFutNet.

generation	Device Manager	VID/PID	FX2 firmware major version	remarks
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1nd	 USB-Controller  DEWESoft USB Device 0	0x0547/0x1002	2	Discontinued (no longer supported)
2nd	 USB-Controller  Trenz Electronic TE03xx USB	0x0547/0x1002	3	Discontinued (no longer supported)
3rd	 Trenz Electronic USB devices  Trenz Electronic USB FX2	0x0BD0/0x0300	3	Recommended

## 2) How do I migrate my firmware module back and forth from one technology stack generation to the other?

Download the FX2 microcontroller [firmware file](#) corresponding to the generation you want to migrate to. Start [OpenFutNet.exe](#). Press the "Select \*.iic file" button and browse to the firmware file. Press the "Program USB" button.



## 3) How do I migrate the device driver back and forth from one technology stack generation to the other?

Just install the [device driver](#) corresponding to the generation you want to migrate to.

## 4) How do I migrate the API back and forth from one technology stack generation to the other?

Just download the [API](#) corresponding to the generation you want to migrate to.

## 5) How do I migrate my application code back and forth from one technology stack generation to the other?

Please consult our detailed [porting guides](#).

## 6) Something went wrong, what now?

Please read our [Technology Stack Overview](#) and follow our recommendations. Still in trouble? Then please [contact us](#).

## Expected production availability date

2nd. September 2013

## PCN representative

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