

Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

### FTDI CDM Drivers 2.06.02 - Revision Comments

FTDI's CDM drivers provide both D2XX and VCP functionality through a single driver package on PCs running the following Windows operating systems:

- Windows Server 2008 R2
- Windows 7
- Windows 7 x64
- Windows Server 2008
- Windows Server 2008 x64
- Windows Vista
- Windows Vista x64
- Windows Server 2003
- Windows Server 2003 x64
- Windows XP
- Windows XP x64
- Windows 2000

The files included in a standard CDM release are:

- Installation files
  - FTDIBUS.INF
  - FTDIPORT.INF
- Driver files
  - FTDIBUS.SYS
  - FTSER2K.SYS
- D2XX Interface
  - FTD2XX.DLL (32-bit)
  - FTD2XX.DLL (64-bit)
  - FTD2XX.LIB (32-bit)
  - FTD2XX.LIB (64-bit)
  - FTD2XX.H
- Supporting files
  - FTLang.DLL (32-bit)
  - FTLang.DLL (64-bit)
  - FTCSERCO.DLL (32-bit)
  - FTCSERCO.DLL (64-bit)

**On making a new release the files will be posted on FTDI's web site <http://www.ftdichip.com/FTDrivers.htm> in ZIP file format.**

Release version

2.06.02 (March 31, 2010)

Interim version with bug fixes.

#### **Release Fixes**

- Fix power management issues on Vista and Windows 7.
- Resolved issue with resuming an open COM port when returning from

Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

- suspend.
- Resolved data loss issue when resizing buffers with hi-speed devices.

Release version

2.06.00 (October 22, 2009)

WHQL certified version with various bug fixes and enhancements.

#### **Release Fixes**

- Corrected buffer optimisation for hi-speed devices.
- Fix BSOD when terminating application with full buffers after disconnect.
- Prevent data being written to hi-speed chips until baud rate has stabilised.
- Fix XOn/XOff issue.
- Fix BSOD when connecting an FT232R/FT245R with endpoint size of 0.
- Fix possible BSOD when opening hi-speed device with full buffers.
- Added ability to alias hi-speed baud rates up to 12Mbaud.
- Added more languages to FTLang:
  - Dutch
- Corrected positioning of controls on property page for some display settings.
- FTLang will now detect current user interface language rather than Windows system language.

Release version

2.04.16 (February 17, 2009)

WHQL certified version with various bug fixes and enhancements.

#### **Release Fixes**

- Fix power management issue.
- Additional protection in serial driver.

Release version

2.04.14 (October 27, 2008)

WHQL candidate version with various bug fixes and enhancements.

#### **Release Fixes**

- Added more languages to FTLang:
  - Finnish
- Added support for FT2232H and FT4232H.
- Prevent users from programming EEPROMs with VID or PID of 0x0000.
- Fixed rare installation problem on Windows Server 2003 x64.

## Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

- Fixed problem with USB 2.0 hub enumeration.
- Fix for DTM rebalance test.
- Force endpoint size in FT232R/FT245R EEPROM structure to always be 64.
- Added FT\_EVENT\_LINE\_STATUS for use with FT\_SetEventNotification.
- Fixed LocIds bugs.

## Release version

2.04.06 (March 13, 2008)

WHQL certified version with various bug fixes and enhancements.

**Release Fixes**

- Added multilingual support to property page via FTLang.DLL. Supported languages are:
  - English (Default)
  - Chinese (Traditional)
  - French
  - German
  - Hungarian
  - Italian
  - Japanese
  - Korean
  - Polish
  - Russian
  - Spanish
- Added FT\_GetComPortNumber function.
- Added Line Status to IOCTL\_FT\_GET\_MODEM\_STATUS.
- Changes to write request processing to fix blue screen.
- Fixed FT\_ResetDevice for FT2232.
- Fixes for Windows error report crashes.
- Fixed synchronisation issue.
- Fixed deadlock issues for multi-processor systems.
- Fixed error condition state in suspend.
- Revised co-installer.
- Support for COM port disabled in device manager (as opposed to disabled though property page).
- Fixed synchronization issue if COM port installation was incomplete.
- Fixed device info list issues: list not populated when using Win32 functions
- Now return default info for devices open in other processes.
- Fixed lock-up problem in Vista and XP.
- Fixed USB 2.0 location ID problem on Windows 2000.

## Release version

2.02.04 (July 3, 2007)

WHQL certified version. New driver architecture combining 32-bit OS driver and 64-bit OS driver.

Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

### Release Fixes

- Code fixes for PreFast and SDV.
- Fix write timeouts.
- Changed write request processing for DVDO box.
- Use LocIds for creating com ports if using IgnoreHWSerNum.
- Various fixes for PreFast.
- Remove references to 5-6 data bits and 1.5 stop bits.
- Fix blue screen in checked build serial driver.
- Power management fast resume for Vista.
- Fixed LocID problem with usb2.0 hubs on Win2K.
- Synchronize D2XX open and serial port startup.
- Fixed object name collision problem in VCP.
- Fixed WER 0xD1\_W\_ftdibus!FT\_WriteTimeoutProc+2c.

### Release Version

2.00.00r (May 18, 2006)

WHQL certified version. New driver architecture combining functionality of D2XX and VCP drivers.

### Release Fixes

- Removed unused fields from device extension.
- Fixed write timeout bytes returned problem.
- Changes for power management
- Fix for buffer full handshake problem.
- Combined driver model.
  
- Added workaround for R-chip bad serial number problem.
- Fixed bug in device startup.
- Fixed vendor request queuing lockup problem.
- Changed device ID creation to fix problem seen in 64-bit OS.
- Fixed lockup problem with hardware handshake (3-write problem) by restoring timeouts for OUT requests.
- Fixed disconnect after hibernate problem.
- Fixed disconnect during open session with active communications problem.

### Previous Release Revisions

1.00.2176 (December 12, 2005)

WHQL certified version. Fixed installation problem.

1.00.2172 (October 31, 2005)

Support for FT2232C devices.

1.00.2170 (October 27, 2005)

Fixed write request synchronization issue.

1.00.2169 (September 1, 2005)

Fixed flow control issues.

## Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

Changed cancel processing to fix blue screen.

- 1.00.2168 (June 8, 2005)  
Fixed lockup condition on port close.
- 1.00.2166 (May 23, 2005)  
Fixed bug in software flow control.
- 1.00.2163 (February 7, 2005)  
Support for buffered writes.  
Fixed property page.
- 1.00.2162 (November 25, 2004)  
Tested with HCT 12.0.
- 1.00.2160 (October 26, 2004)  
Added option to prevent modem control signals following legacy port behaviour at startup.
- 1.00.2159 (October 15, 2004)  
Fixed delay on disconnect under WinXP.
- 1.00.2157 (September 28, 2004)  
Fixed bug that could cause computer to hang during closedown.
- 1.00.2156 (September 9, 2004)  
Fixed bug in baud rate divisor calculation for AM devices.  
Location Ids supported is no longer restricted to 10 or less.  
Fixed bug that could cause computer to hang on surprise removal.  
Fixed bug that caused device handle notification to fail.
- 1.00.2154 (April 20, 2004)  
WHQL certified version.  
Fixed initialization problem on WinXP SP1.  
Fixed IOCTL\_SERIAL\_GET\_DTRRTS.
- 1.00.2151 (February 4, 2004)  
Fixed problem with signalling events on disconnect with open port.
- 1.00.2150 (January 19, 2004)  
Fixed problem with signalling line status errors.  
Fixed problem with Location IDs and external hubs.
- 1.00.2148 (November 11, 2003)  
More fixes for WHQL.  
Fixed problem that prevented RXCHAR event being signalled when buffers were full.
- 1.00.2146 (October 28, 2003)  
Various fixes for WHQL.  
Added option for immediate processing of vendor commands.
- 1.00.2145 (October 20, 2003)

## Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

Fixed power-level problem with VCP serializer DLL interface.

## 1.00.2143 (September 24, 2003)

Fixed problem with RTS control toggle mode.  
Fixed problem with device state after suspend/resume.

## 1.00.2140 (September 11, 2003)

Fixed problem with uninstall from DeviceManager.  
Fixed problem with Sandstorm software.  
Improved device request processing.  
Fixed problem with modem control signal state on open.  
Fixed cancel write request problem.  
Added reset pipe retry count.  
Added maximum devices option.  
Added supported locations option.

## 1.00.2134 (June 16, 2003)

More changes for BusHound.

## 1.00.2133 (June 12, 2003)

Fixed BusHound compatibility problem.  
Updated properties page with serial enumerator option.

## 1.00.2132 (June 09, 2003)

Bug fixes for substitution mode.  
Fixed problem where laptops could not enter standby mode.  
Fixed problem with Lexmark printer.  
Added "Set RTS on Close" flag.  
Updated properties page.

## 1.00.2126 (April 10, 2003)

Support substitution mode.  
Restore device state on return from suspend or hibernate.  
Fixed device naming problem.  
Fixed bug in purge when receive buffer full.  
Fixed bug in properties page.

## 1.00.2115 (February 25, 2003)

Beta release includes drivers that have passed Microsoft certification tests.

## 1.00.2115 (December 20, 2002)

Beta release.  
Support force XON/XOFF option.  
New properties page.

## 1.00.2114 (November 1, 2002)

Beta release.  
Correctly identifies unserialized FT232BM and FT245BM devices.  
Fixed remote wakeup.

## 1.00.2112 (October 25, 2002)

Beta release.  
Support for FT232BM and FT245BM.

## Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

Uses location information to enumerate non-serialized devices.

1.00.2104 (July 22, 2002)

Drivers digitally signed.

1.00.2101 (February 1, 2002)

Fixed problem that resulted in some devices not coming out of hibernate.  
Fixed divide-by-zero problem zero baud rate.

1.00.2099 (January 7, 2002)

Fixed problem with aliased baud rates.

1.00.2098 (December 20, 2001)

Improved transmit throughput.  
Support serial printers through Registry setting.  
Support for non-standard baud rates.  
Support Transmit Immediate.  
Disable modem control signals on port close.  
Fixed serial mouse disconnect problem in Standby mode.  
Runs under driver verifier.

1.00.2088 (October 30, 2001)

Fixed connect/disconnect problem in Windows XP.  
Runs under driver verifier in Windows XP.

1.00.2086 (October 5, 2001)

Fixed write request timeout processing.  
Fixed problem with restarting writes after port close.  
Fixed no space in read buffer problem.

1.00.2084 (October 2, 2001)

Passes HCT tests (required for Windows XP Logo).  
Uses common uninstaller FTDIUNIN.EXE.  
Fixed minimum timeout problem.  
Fixed write request blue screen.  
Fixed write request timeout processing.  
Fixed data loss at low baud rates.

1.00.2078 (July 27, 2001)

Fixed support for Logitech mice.  
Enhanced write request processing.

1.00.2072 (May 2, 2001)

Runs under Windows XP.  
Fixed receive buffer full problem.

1.00.2071 (Apr 26, 2001)

Enhanced BREAK condition processing.

1.00.2069 (Mar 28, 2001)

Fixed hyper-terminal re-boot problem seen when transmitting files at low baud rates.

## Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

- 1.00.2068 (Mar 23, 2001)
  - Drop modem status signals on disconnect
  
- 1.00.2067 (Feb 26, 2001)
  - Fixed disconnect with open port problems
  - Support multiple devices attached at the same time
  - Fixed hyper-terminal re-boot problem seen when typing characters in terminal screen
  - Enabled for surprise removal (removes unexpected removal dialogue box)
  
- 1.00.2060 (Jan 19, 2001)
  - Change to modem status register set up to improve port initialisation
  
- 1.00.2058 (Nov 7, 2000)
  - Fix to changing buffer size under Windows 2000 for FT8U232AM and FT8U245AM
  
- 1.00.2057 (Oct 19, 2000)
  - Fix to enable speeds greater then 115k baud for FT8U232AM and FT8U245AM
  
- 1.00.2055 (Sept 7, 2000)
  - Support for common INF for Win98 and Win2k drivers
  - Update of INF to support FT8U232AM and FT8U245AM
  
- 1.00.2054 (Aug 10, 2000)
  - Increased time out delay to make enumerator performance more robust
  
- 1.00.2053 (Aug 9, 2000)
  - Fixed transmit toggle problem
  
- 1.00.2052 (July 24, 2000)
  - Driver stack made consistent to fix device power state failure
  - INF changes to add serial services
  
- 1.00.2051 (June 15, 2000)
  - Fixed problem with 230k baud select, IN transfer restriction of 64 bytes removed
  - Fixed X-ON/X-OFF handshaking problem, added support for serial mouse
  
- 1.00.2049 (Mar 25, 2000)
  - Install / uninstall for new naming (ftser2k)
  
- 1.00.2046 (Mar 15, 2000)
  - New naming format: ftserial -> ftser2k
  
- 1.00.2044 (Mar 8, 2000)
  - Update to fix problem with Direct Cable Connect



Hinweise zur Installation und Version „FTDI USB-Treiber-VersionsInfo.pdf“

- 1.00.2041 (Mar 3, 2000)
  - Fixed problem with baud rate selection
- 1.00.2040 (Mar 1, 2000)
  - Removed FTDI uninstaller
- 1.00.0 Beta (Feb 21, 2000)
  - Update to improve flow control
- Alpha100 (Feb 18, 2000) - first release
  - Connects to ISP. Some flow control problems.