



# EtherCAN/2

## Host Driver and Firmware Release Notes

### About

These are the release notes for the EtherCAN/2 Firmware and Host Driver.

- **Host Driver:** Software on the PC that connects to the EtherCAN/2 device and offers the API etc (Under Windows this is installed with the setup.exe)  
Note: The Host Driver is also compatible with old EtherCAN device
- **EtherCAN/2 Firmware:** Software on the EtherCAN/2 device itself  
(Update is done via a special file that is uploaded on devices web page)

### Revision history

Listed below are the improvements, changes and fixes between different releases of the EtherCAN/2 Firmware and Host Driver in reverse chronological order.

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#### Host Driver V3.1.0

2010-05-18

- Manuals updated
  - EtherCAN/2 manual V1.3
  - EtherCAN/2 manual V1.3 (German)
  - ELLSI manual V1.5
- Host Driver also as .zip
  - Without ntcandriver, e.g. for none-Windows users
- Updated ntcandriver.dll to V2.1.0.30
  - Improved TX Performance for EtherCAN/2 when using canWrite()/canSend() with msg count greater than 1
- ELLSI updates
  - Reformatted examples
  - Included Wireshark plugin for ELLSI protocol
- Improved support for UPnP (Windows Vista and above)
  - Individual icon and context menu for EtherCAN/2 as UPnP device in Other Devices of Windows network browser
- Updated canctrl.cpl to V1.5.0
  - Replaced CPL version of CAN Control Panel with Windows Vista/7 UAC aware executable which requires elevated rights for configuration
  - Fixed bug with phantom devices exist after the change of the logical net number
- Updated esdcp to V0.1.6
- Updated ntcandriver.dll to V4.3.1.0
- Updated calcan32.dll to V 2.5.3.0

growing with the  
challenge

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**Host Driver V3.0.0**

2009-09-21

Common setup for EtherCAN/2 and EtherCAN interface

EtherCAN/2 manual V1.0 (German)

Installs optionally SNMP MIB file

- Changed installer from InstallShield to InnoSetup
- Update ntcaneeth.dll to V2.1.0.25
  - Fixed bug detecting lost frames (V2.1.0.25)
  - Increase maximum allowed size of Tx/Rx handle queue size from 2047 to 16384 (V2.1.024)
  - Increased maximum number of supported interfaces for 20 to 100 (V2.1.023)
  - Fixed IDs of CAN events always set to 0 (V2.1.0.22)
  - Fixed canClose() even returns on success with NTCAN\_INVALID\_HANDLE (V2.1.0.21)
  - Added dummy support for canGetOverlappedResult() and canGetOverlappedResultT() (V2.1.0.20)
  - Improved performance of canOpen() (V2.1.0.20)
  - Fixed rare canClose() cleanup issue (V2.1.0.20)
  - Internal optimizations (V2.1.0.20 - V2.1.0.25)
- Updated libsys.dll to V1.7.3.0
- Updated ntcaneeth.dll to V4.2.7.0
- Updated calcan32.dll to V2.4.4.0
- Updated cancpl.cpl to V1.4.3.0
- Updated QT ESDCP front end to V0.1.5

Display truncated device name instead of Unknown if device name is too long

Support for ESDCP extended options

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**Host Driver V2.2.0**

2008-05-14

- Update ntcaneeth.dll to V 2.1.0.19
  - Support for the IOCTLs NTCAN\_IOCTL\_GET\_RX\_MSG\_COUNT and NTCAN\_IOCTL\_FLUSH\_RX\_FIFO (V2.1.19)
  - Calls for unsupported functionality now returns NTCAN\_NOT\_IMPLEMENTED (V2.1.18)
  - A call of canIoctl() with an unsupported IOCTL command return NTCAN\_INVALID\_PARAMETER (V2.1.18)
  - Fixed canWrite() returning NTCAN\_TX\_TIMEOUT, even if all CAN messages are sent (V2.1.17)
  - Minor internal changes (V2.1.10 - V2.1.16)
- Updated libsys.dll to V1.7.0.0
- Updated ntcaneeth.dll to V4.1.1.0
- Updated calcan32.dll to V2.4.2.0

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**Host Driver V2.1.0**

2007-04-16

- Installer and shared libraries/executables are now digitally signed
- Update ntcaneeth.dll to V2.1.0.9



- Once again improved reconnect time (V2.1.0.9)
- Fixed possible endless loop returning in rare situations after connect/reconnect (V2.1.0.8)
- Overall performance improvement (V2.1.0.6)
- Implemented canClose() immediately kills active reconnect instead returning after next reconnect timeout (V2.1.0.6)
- Keep alive mechanism completely revised and improved (V2.1.0.6)
- NTCAN API calls return NTCAN\_WRONG\_DEVICE\_STATE during reconnect phase (V2.1.0.6)
- Increased maximum number of handles from 127 to 511 (V2.1.0.6)
- Fixed opening more than the maximum number of possible CAN handles caused all other handles to be closed (V2.1.0.6)
- Support for aborting blocked read/write requests via canIoctl() and performing forced close on handle (V2.1.0.5)
- Fixed bug in validation of queue size parameter in canOpen() (V2.1.0.4)
- Fixed bug that DLL crashed on unload in case of timeout during reconnect
- Receiver thread priority changed from Realtime to High (V2.1.0.4)
- Decreased time for reconnect (V2.1.0.3)
- Fixed unnecessary reconnects to EtherCAN modules no longer existent after canClose() (V2.1.0.2)
- Internal maximum number of supported EtherCAN interface increased from 5 to 20 (V2.1.0.2)
- Fixed possible race condition in DLL unload (V2.1.0.1)
- Reduced CPU time consumed by keep-alive thread (V2.1.0.0)
- Improved handling of socket errors (V2.1.0.0)
- Improved reconnect behavior (V2.1.0.0)
- Updated QT ESDCP front end to V0.1.2
  - Supporting empty password to configure remote device
- Updated libsys.dll to V1.5.0.3
- Updated ntcandll.dll to V4.1.0.0
- Updated cancp.cpl to V1.4.0.1
- Updated calcan32.dll to V2.3.2.0

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### Host Driver V2.0.0

2005-11-10

- Support for Extreme Simple Device Configuration Protocol (ESDCP) to remotely configure network enabled ESD devices without knowledge of the IP address with Qt based ESDCP front end
- Win32 example files to use new EtherCAN Low Level Socket Interface (ELLSI) CAN I/O with UDP messages instead of using NTCAN
- Update ntcandll.dll to V2.0.0.18
  - Support to configure EtherCAN server timeout
  - Fixed returning error code for canClose() even if successful

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### Host Driver V1.1.0

2005-05-03

- Added missing support for Windows 9x/ME
- Changed setup to allow minimal install without documentation



- Update libpsys.dll to V1.5.0.0
  - Update ntcn.dll to V3.2.0.0
  - Update cancpl.cpl to V1.4.0.0
- Added support to use more than 5 remote CAN gateways  
Added support to configure individual connection/command and keep alive timeout for each remote gateway  
Added support to choose different port
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#### **Host Driver V1.0.0002**

2004-11-13

- Update libpsys.dll to V1.4.0.2
  - Update ntcneth.dll to V2.0.0.15
- Additional configuration parameter stored in registry  
Fixed bug handling CAN 2.0B frames and events  
Fixed bug opening/closing handles only possible 256 times
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#### **Host Driver V1.0.0001**

2003-11-13

- Update ntcneth.dll to V2.0.0.3
- Fixed bugs handle remote CAN bus errors  
Added support to get serial number of remote gateway
- Include hardware manual V1.2
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#### **Host Driver V1.0.0000**

2003-10-09

- Initial release for Windows NT/2K/XP
- cancpl.cpl V1.3.0.1  
ntcn.dll V3.1.0.0  
ntcneth.dll V2.0.0.2  
libpsys.dll V1.2.0.0  
calcan32.dll V2.0.0.4  
Hardware Manual V1.1
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#### **Firmware V4.2.0.7**

2010-05-06

- Added UPnP client  
(Host Driver V3.1.0 or newer recommended)
  - Serial number, hardware version and firmware version now also readable by NTCAN-API  
(See canStatus() and NTCAN\_IOCTL\_GET\_SERIAL)
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#### **Firmware V4.2.0.6**

2010-04-15 (internal release)



- Now also showing connected ELLSI clients and their statistics
- Improvements for DHCP  
(e.g. Hostname now configurable and NTP-server also taken by DHCP)
- Webpage Network Configuration” now shows actual active configuration instead of just last saved settings

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#### **Firmware V4.2.0.5**

2010-02-16

- Minor changes for ELLSI

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#### **Firmware V4.2.0.3/4.2.0.4**

2010-02-10

- Fixed esdcp finding the device when auto-ip was set
- Decreased time for dhcp configuration from 5 minutes to 1 minute  
(So 2 minutes until auto-ip is set)

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#### **Firmware V4.2.0.2**

2009-11-20

- Added 20k baud mode to allow baudrates < 50 kBit/s

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#### **Firmware V4.2.0.1**

2009-10-14

- Improved esdcp finding the device when there was no gateway set

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#### **Firmware V4.2.0.0**

2009-10-01

- Initial release

