PCAN-Diag - Software Update via CAN

V1.0

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for more information please visit www.peak-system.com or contact us at info@peak-system.com

Needed Hardware:

- PEAK PC CAN Interface (PCAN-USB or PCAN-PCI etc.)
- PC with Windows XP/Vista or W7 (32 or 64Bit)
- PCAN-Diag
- CAN Cable to connect PCAN-PC Interface to PCAN-Diag (2 x Sub-D Female)

Needed Software:

- Latest PEAK CAN Driver for Windows must be installed (minimum Ver. 3.x) Files can be load at <u>www.peak-system.com</u> Support – Downloads Select the download packages for your Hardware (PCI/USB/PCC etc.)

- PCAN-View for Windows (minimum Version 3.1) is part of the package or Could be load from <u>http://www.peak-system.com/fileadmin/media/files/pcanview.zip</u>

- CAN2Flash Software package for Windows (minimum Version 1.1) including:
- PCAN-Flash
- Screenshot Tool (for saving Screens and Data from PCAN-Diag to PC via CAN)
- latest Firmware for PCAN-Diag

Please download from: <u>http://www.peak-system.com/fileadmin/media/files/pcandiag.zip</u>

Step1

- Be sure that the Driver for your PC CAN Hardware is installed.
- Connect the PCAN-Diag directly to the PCAN-PC Interface.
- Start PCAN-View and connect to the PCAN-Diag using the CAN Cable.
- Send some Messages to see if connection is OK

Typical problems are:

The cable AND the PCAN-Diag are both NOT terminated - use Device Settings in PCAN-Diag to enable termination if you use a not terminated cable or use a terminated cable.

PCAN-Diag is in listen only mode - use Device Settings to switch listen only mode of.

Copy the files from the CAN2Flash Software package to a local Directory to your PC.

If you also have a PCAN-Explorer or other PEAK Software running that use a Net Connections, please go to Step 3. If not start the PCAN-View and select the same Baud rate that you have select on the PCAN-Diag device (for fast work use 500K or 1Mbit)

4 Verbinden
PCAN-View / CU
Verfügbare CAN- <u>H</u> ardware:
🛱 PCAN-USB: Gerät 2h, Firmware 2.8
Bitrate: 500 kBit/s Bus Timing Register (Hex): 001C
Filtereinstellungen
◎ <u>Standard</u> Von: 000 (Hex) Bis: 7FF (Hex)
© <u>E</u> xtended
OK Abbrechen 🖓 Hilfe

And press OK.

PCAN-View					
i <u>D</u> atei <u>C</u> AN	<u>B</u> earbeiten <u>S</u> en	den <u>A</u> nsicht <u>T</u> r	ace <u>H</u> ilfe		
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🐨 Senden / En	npfangen 📃 T	race 😪 PCAN-USI	3		
Botschaft	DLC	Daten	Zy	kluszeit	Anzahl
-Leer>					
ang ang					
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LE.					
Botschaft	DLC	Daten	Zykluszeit	Anzahl	Trigger
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Verbunden m	it PCAN-USB (50) kBit/s) 🚔 Overru	ns: 0 QXmtF	ull: 0	

The LED of the PCAN-USB is now flashing and you have a connection between the PCAN-View and your Hardware (see status line of PCAN-View Software)

Now start the PCAN-Flash.exe file and press the yellow Flash (or menu "connect" or Strg-N) and select the Hardware.

Connect to net		X
Available <u>n</u> ets:		
Name:	Hardware:	Baudrate:
PCANLight_USB_16	PCAN-USB	500 KBit/sec
	OK	Cancel

On the PCAN-Diag Hardware please select the Menu "Internal Statistic" – "Update Firmware" .

Now you could try to find the PCAN-Diag with the CAN2Flash Tool by use "Module" – "Detect" (or press Strg-D).

2 PCAN Flash						x
Application CAN Module Help						
🗵 📠 🤣 🔸 🍡 EF FE 🕨 🕕						
Module no. Hardware type	Flash type	Version	Date	Mode	Status	
31 PCAN-Diag	LPC_IAP_232	2.04	18.5.2010	active	Ok	
Detecting Detecting finished !						*
						T
Connected to: PCANLight_USB_1						//,

Select the PCAN-Diag and open the "Application" – "Options" Menu to select the Target Device and the Firmware File.

Options	×
Hardware Profile: PCAN-Diag	•
Filename: \Firmware\pcan-diag V1.3.10.bin Block size [bytes]: 512	Erase all
Status timeout [ms]: 8000 Process retry: 0	Converter
Reserved area: Start adress: End adress: 000000 000000	Upload adress: Start adress: End adress: 004000 03DFFF from Bin-File
Flash offset address: 000000 CRC array address: 000000	
Skip Delete Sector Skip Sectors 🔽 Dependent on Flash Types 🥅 Fla	Sectors: 0,1,2,17 (e.g.: 1,3) sh Type: UserFlash
	Ok Cancel

Select the PCAN-Diag Hardware Profile and also the folder of the PCAN-Diag Firmware on your PC. (Could be found in the "Firmware Directory"). Press OK.

With the green Arrow or the "Module" "Program" menu entry (Strg-P), you write the new Firmware to the Device.

2 PCAN Flash							X
Application CAN Module Help							
S 🗊 🔶 +	🐂 GF FE						
! Module no. Hard	dware type	Flash type	Version	Date	Mode	Status	
31 PCA	N-Diag	LPC_IAP_232	2.04	18.5.2010	active	Ok	
Skip erase Sector: 17 ! Skip erase Sector: 18 ! Elapsing time of erase sectors: 1.45 seconds. Erase of sectors finished ! Start programming of module(s)							
Connected to: PCANLi	ght_USB_1						//.

After the programming process is finished you could close the PCAN-Flash and reset the PCAN-Diag by pressing the main button. After restarting the PCAN-Diag Device you will see the new Firmware Version in the top of the Main Menu (PCAN-Diag V1.x.xx)