



KOPF



AUTOMOTIVE INTERFACE AI2

BASIC HARDWARE WITH CAN, LIN AND USB-INTERFACE FOR THE
AUTOMOTIVE-RANGE



AUTOMOTIVE INTERFACE AI2

BASIC HARDWARE WITH CAN, LIN AND USB-INTERFACE FOR THE AUTOMOTIVE-RANGE

CAN & LIN MONITOR & SIMULATION

PC Software

The communication between PC and AI2 takes place with the help of a dynamic Link Library (DLL) via the USB-Interface. In the basic scope of supply of the AI2 is the application buswatch V3 (Windows Vista, Windows 7, Windows 8, Windows 10) inclusively Source-Code (C#). Further integration examples in C# and other programm languages can be found at

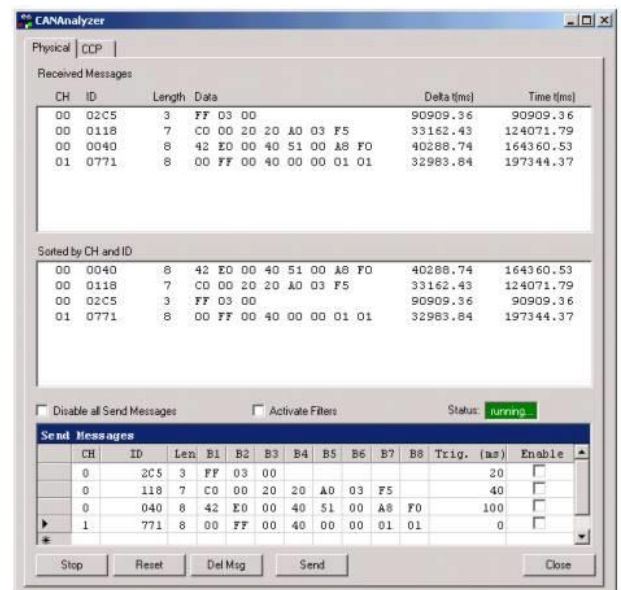
- ▶ <http://www.kopfweb.de/index.php/en/hardware-development>
- ▶ <http://www.kopfweb.de/index.php/en/download-english>



- ▶ Spontaneous and cyclical sending from CAN-Frames
- ▶ Implementation of complete communication stencils (on request)
- ▶ LIN Master/Slave simulation with cycle- and status information
- ▶ Interface for PC-communication (RS232 & USB)
- ▶ Online Bus Trace (screen)
- ▶ Monitoring the Businformationen on screen and in a file
- ▶ Producing a trigger signal (ISO9141) of freely selectable ID
- ▶ High accuracy of the system time reference
- ▶ Timing analysis of the data telegrams with a dissolution of 10us
- ▶ Efficient hardware with expandabilities
- ▶ Availability of the Source code für customer adjustments
- ▶ Flash-Update via PC-Software
- ▶ USB-Integration via DLL-Interface including completely Source-Codes

Operational areas of the Automotive Interfaces (AI)

Use finds the AI in the scope of development and inspection of the car manufacturers and their supplier.



Function range Buswatch V3

- ▶ Cycle and spontaneous sending procedures
- ▶ Support of max. 2 CAN-Channels
- ▶ Minutes-recordings in File
- ▶ Windows Vista, Windows 7, Windows 8, Win 10
- ▶ Basic implementation CCP-communication
- ▶ Filter for receipt Messages
- ▶ Source-Code without restrictions available

In configuration files attitudes can be stored for different simulations- and/or test environments.

CAN & LIN MONITOR & SIMULATION

USB-Interface Dynamic Link Library (AID.DLL)

KCAN_Open

Syntax: uint32 KCAN_Open()

Open for the USB-Interface of the AI2

Return value: 1: Interface activ

KCAN_Init

Syntax: uint32 KCAN_Init(byte channel, uint32 baudrate)

Initialization for the CAN Interface „channel“ (0,1) with the Baud rate „baud rate“ (50000..1000000).

Return value: 0: Initialization implemented

KCAN_Reset

Syntax: uint32 KCAN_Reset()

Reset for the USB-Interface and delete of the CAN-Puffers.

Return value: 0: KCAN_Reset implemented

KCAN_Send

Syntax:

uint32 KCAN_Send(byte channel, uint32 id, uint32 dlc, byte *data)

Send a CAN telegrams on the CAN interfacee „channel“. Extended-Frames are marked by an active Highest-Bit (Bit31) of the Identifiers.

Return value: 0: Telegram dispatched

KCAN_Receive

Syntax:

uint32 KCAN_Receive(byte *channel, uint32 *id, uint32 *dlc, byte *data, ulong *time)

Received of a CAN Telegrams of the CAN Interface „channel“. Extended-Frames werden durch ein aktives Highest-Bit (Bit31) des Identifiers gekennzeichnet. Dissolution of „time“ amounts to 10us.

Return value: 0: Telegram received

KCAN_Receive_Status

Syntax: uint32 KCAN_Receive_Status()

Return value: Number of CAN Telegrams in the buffer

KCAN_Close

Syntax: uint32 KCAN_Close()

Close for the USB-Interface of the AI2

Return value: 0: Interface closed

Technical data AI2 in overview

Voltage supply	USB or 8-30 V DC
CAN-Interface	2x 82C251 / TJA1050
LIN-Interface	1x TJA1020
RS232-Interface	1x HIN202 (PC,SPS)
USB-Interface	1x FTDI245
Dimensions (LxWxH)	112x60x20 mm
Weight	0,1 kg
Temperature range	-40°C – 85 °C (0°C-50°C USB)
Processor	MC9S12DP256/25 MHz
System Memory	256 kB Flash-EPROM (Update over PC) 12 kB RAM

Order and price information*

Automotive Interface 2 Ext. Supply 12/24V LIN 070 010 191 C	388,00 €
Automotive Interface 2 Aluminium Case with Top Hat Rail Ext. Supply 12/24V LIN 070 010 192 C	454,00 €
Connecting cable 2 CAN LIN 070 010 184	34,60 €
Connecting cable LIN Slave without terminal resistance 070 010 181	21,10 €
Connecting cable LIN Master with terminal resistance 1 kΩ 070 010 182A	37,30 €

* All the prices indicated are subject to VAT at the prevailing rate.