AUTOMOTIVE INTERFACE AI3

AI3 BASIC HARDWARE WITH CAN AND USB-INTERFACE FOR THE AUTOMOTIVE AREA

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CAN & LIN MONITOR & SIMULATION
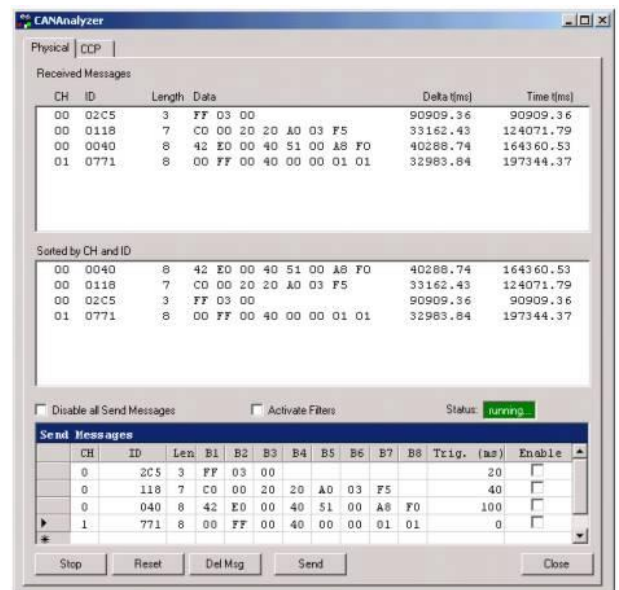

▶ Spontaneous and cyclical sending from CAN-Frames

▶ Implementation of complete communication stencils (on request)

▶ Interface for PC-communication(RS232 & USB)

▶ Online Bus Trace (screen)

▶ Monitoring the Bus information on screen and in a file

▶ High accuracy of the system time reference

▶ Timing analysis of the data telegrams with a dissolution of 10us

▶ Efficient hardware (HCS12) with expandabilities

▶ Availability of the Source code for customer adjustments

▶ Flash-Update via PC-Software

▶ USB-Integration via DLL-Interface including completly Source-Codes

▶ 2 SPI-Master/Slave Ports

Range of functions

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

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 (Vista, Win7, Win8, Win10) inclusively Source-Code (C#).

Range of functions Buswatch:

▶ Cycle and spontaneous sending procedures

▶ Support of max. 2 CAN-channels

▶ Minutes-recordings in file

▶ Windows Vista, Windows 7, Windows 8, Windows 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.

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USB-Interface Dynamic Link Library (AID.DLL)

KCAN_Open

Syntax: uint32 KCAN_Open()
Open for the USB-Interface of the AI3
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 interface „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 are marked by an active Highest-Bit (Bit31) of the Identifiers. 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

Tecnical data in overview

Voltage supply	USB
CAN-Interface	2x TJA1050 (82C251) 1x TJA1054
RS232-Interface	1x HIN202 (PC,SPS)
USB-Interface	1x FTDI245
Dimensions (LxBxH)	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 3 **070 010 193 A**	490,00 €
Automotive Interface 3 Aluminium Case with Top Hat Rail **070 010 194 A**	578,00 €
Connection cable AI 3CAN **070 010 186**	29,30 €

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

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