CANTucan

Product overview

CANTucan is designed for the use in development, test and diagnosis environment for communication networks in cars, trucks and laboratories. After the configuration CANTucan runs stand-alone and can be used without a PC.

- **Bus simulation**

  Configurable bus simulation based on own definition or a DBC file

- **Signal gateway**

  Message level based realtime routing

- **Message gateway**

  Complete signal level based rerouting of message

- **Intelligent wire**

  Intelligent realtime message manipulation

- **Stand-Alone operation**:

  After the configuration CANTucan operates completely without host and starts the configuration automatically
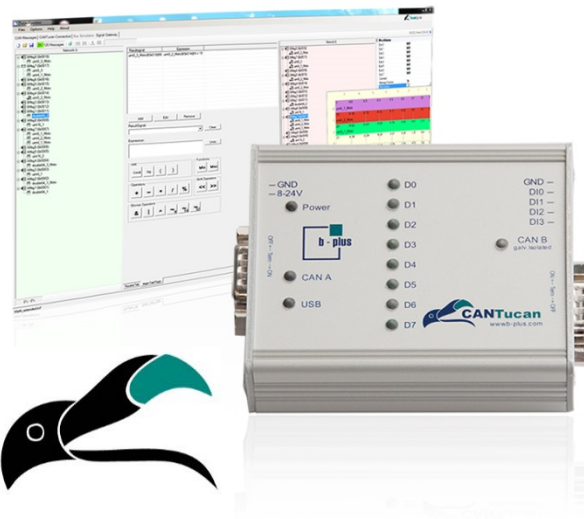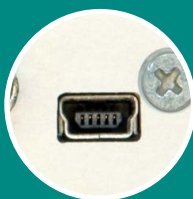

Illustration 1: CANTucan

A multifunctional tool for CAN Networks

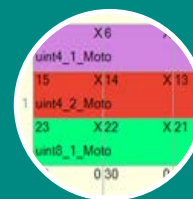Fast and easy to use due to complete tool supported configuration

Stand Alone operation without host PC

DBC import or own network definitions

Smallest dimensions and robust housings for the use in automotive areas

Manipulation down to signal area

Preliminary

Functional details

- Various operation modes for intelligent real time message manipulation and / or reconstruction with the bus simulation
- Complete tool supported parameterization for high flexibility and fast results
- Message configuration via DBC file or manual input of the identifier
- Minimum dimensions and robust aluminium housing
- Device monitoring (external watchdog, temperature and onboard current via CAN message)

Interfaces

- 2x CAN (2x als D-SUB , 1x galv. getrennt)
- 8 Digital-Out (routed to 8 LEDs)
- 4 Digital-In (plug connector -weak high against GND)
- USB for the configuration

Main Module

CPU

XC2287 16Bit CPU @ 66 MHz

RAM/Flash

Internal 768kByte FLASH
External 512kByte SRAM
External 2MByte FLASH

Dimensions

Box: 24(h) x 69(w) x 93(l) mm

Power supply

8 bis 24 V DC
Max. ca. 5 W power consumption

Operating temperature range

Typical: -20°C up to +85°C

Expansion slot

Connector for custom modules

CAN Baud rate

Free configurable from 125kBaud up to 1MBaud
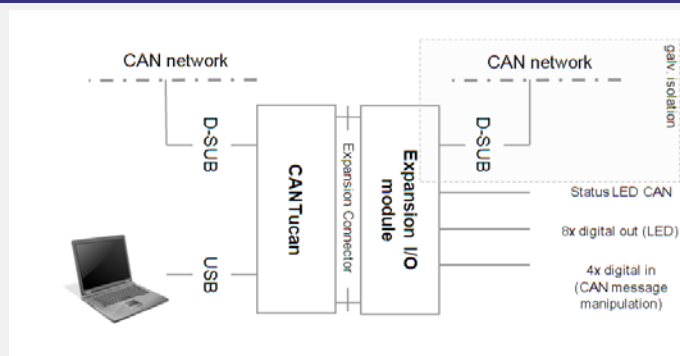
USB

USB2.0, 3MBit

Conceptional Illustratons

Illustration 2: Schematic illustration
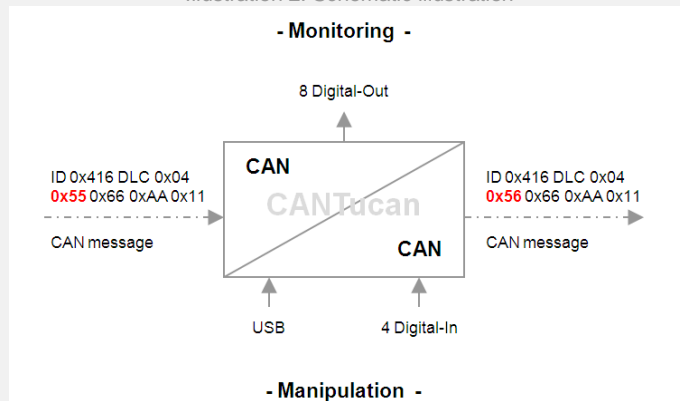

Illustration 3: Manipulation flow chart

Product versions

CANTucan	GT	RBS	SGTR-Lite	SGTR
Import DBC files or create own networks	X	X	X	X
Usable CAN interfaces	2	1	2	2
CAN Filter / CAN Firewall	X		X	X
Baudrate change	X		X	X
Message gateway	X		X	X
CAN Bus simulation		X	X	X
CAN ID & DLC manipulation	X	X	X	X
CAN signal manipulation		X		X
Combine signals with mathe matical operations		X		X
Manipulation on digital inputs	X	X		X
Combined bus simulation and signal gateway			X	X
Generate additional signal types (waveform pattern random)				X

Preliminary