

AnaGate CAN USB

USB CAN Gateway

Product overview

The AnaGate CAN USB gateway connects a PC to a CAN bus via USB interface. Hereby communication takes place via a virtual network card, which emulates networking over the USB cable.

The AnaGate CAN USB works as a device with no own CAN identifier on the bus.

The CAN messages are transparently embedded in TCP/IP telegrams to enable communication with any CAN device on the CAN network. This means that a CAN network can be addressed over the Internet or from multiple different PC's over a network. Higher protocol layers e.g. CANopen, Devicenet or J1939 can be used by the host system too.

Gateway mode

In the gateway mode the CAN messages are transferred transparently over TCP/IP between the CAN network and the host platform (e.g. PC) in both directions.

Listen mode

In the listen mode messages can be recorded without influencing the CAN bus.

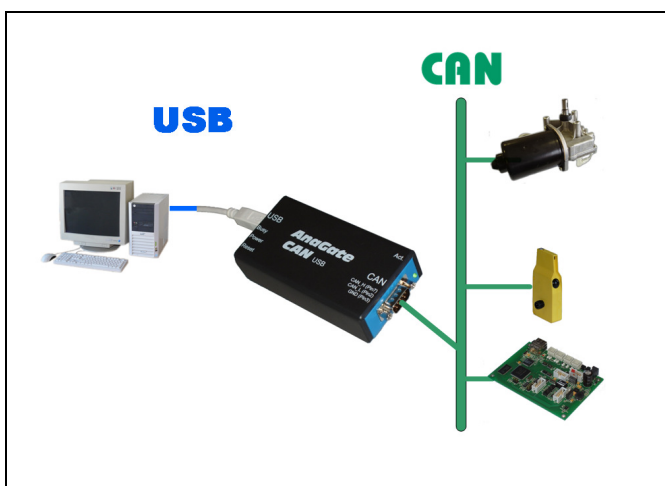
Software interface

The application protocol is based on the TCP/IP protocol and is described detailed in the documentation.

Thus the access to the AnaGate CAN USB device can be programmed via native calls to the TCP/IP socket interface.

Accessing the device with the supplied windows application library (DLL) is much comfortable and can be used with a conventional programming language.

An easier way to control the gateway device is to use the LUA scripting language. Self created script programs are executable on PC and on the device itself. The already created script files are smartly uploaded to the AnaGate CAN USB via the browser interface and afterwards started by a simple click.





Technical specifications

Measurements:	L x W x H	120 mm x 58 mm x 32 mm
	Weight	ca. 125 g
Power supply	Input voltage	5V DC via USB plug
CAN bus:	Baud rate	10, 20, 50, 62,5, 100, 125, 250, 500, 800 kbps or 1 Mbps configurable with software or web interface
	CAN controller	1x Microchip MCP 2515
	CAN interface	1x ISO 11898-2, galvanically decoupled
	Interface	1x DB9 plug incl. CAN_H, CAN_L
Modes of operation	Gateway mode	Multiple host controllers can receive/transmit CAN messages.
	Listen mode	Recording of CAN message without CAN bus influences..
LAN interface:	Baud rate	10/100 Mbps
	TCP/IP (emulated)	Static IP address, dynamic IP address on PC (DHCP)
	Interface	USB plug type B
EC directives:		CE, RoHS.
Software:	Configuration	Via HTTP interface.
	CAN Monitor	Windows program to access CAN bus via AnaGate CAN USB.
Programming:	Native	Via socket interface using a documented application protocol.
	Windows	Via application library (DLL) using a standard programming language (e.g. C/C++, Delphi) or via scripting language LUA.
	Linux (i569)	Via static library (g++ V4.1) or via scripting language LUA..
	CANopen	OpenSource driver for CANFestival.

Ordering information

Order number	Scope of delivery
GT-CANU-HW	AnaGate CAN USB including CD-ROM with documentation, software API as a DLL for Windows 7/XP/2003