



AnaGate CAN Ethernet / CAN Gateway

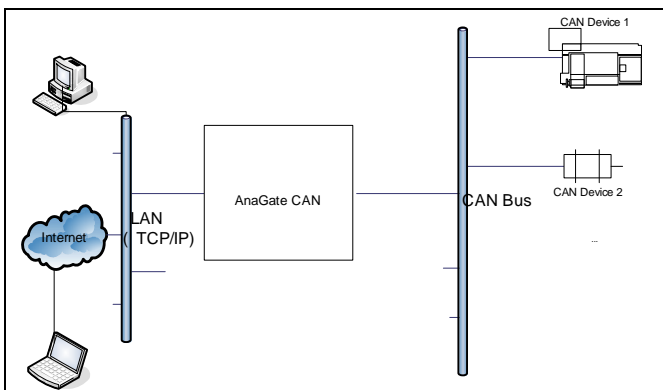
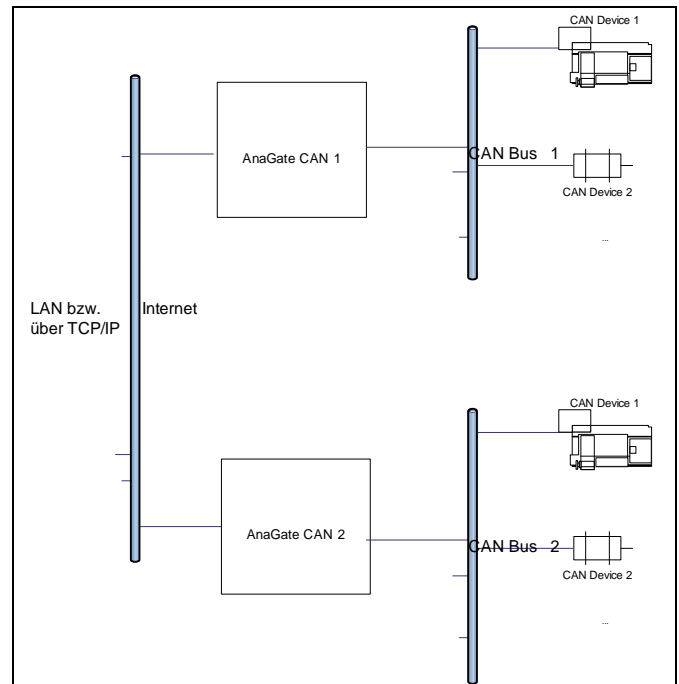
Product overview

The AnaGate CAN gateway connects a PC, an embedded PC or other general device to a CAN bus via the TCP/IP network protocol (Ethernet). The AnaGate CAN 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.

Bridge mode

In the LAN bridge mode up to four arbitrary CAN networks can be interconnected by up to four AnaGate CAN.

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 device can be programmed via native calls to the TCP/IP socket interface. This means that any communication partner with a LAN (TCP/IP) interface is able to communicate with the AnaGate CAN.

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



Technical specifications

Measurements:	L x W x H	155 mm x 105 mm x 40 mm
	Weight	ca. 250 g
Power supply	Input voltage	8 ..28 V DC or via power supply (EU, UK, US)
CAN bus:	Baud rate	10, 20, 50, 62,5, 100, 125, 250, 500 kbps or 1 Mbps configurable with software or web interface
	CAN controller	Microchip MCP 2515
	CAN interface	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 Bridge mode	Up to 4 AnaGate CAN connecting up to 4 CAN networks via LAN or internet.
LAN interface:	Baud rate	10/100 Mbps
	TCP/IP	Static or dynamic IP address (DHCP), configurable via web interface.
	Interface	RJ45 plug
Digital IO:	Inputs	4, galvanic decoupled
	Outputs	4, galvanic decoupled (max. 5mA)
EC directives:		CE, RoHS.
Software:	Configuration	Via HTTP interface.
	CAN Monitor	Windows program to access CAN bus via AnaGate CAN.
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).
	Linux (i569)	Via static library (g++ V4.1).
	CANopen	OpenSource driver for CANFestival.
	Embedded Linux	Support (e.g. ARM9) is available upon request.
	Simatic S7	Support is available upon request.

Ordering information

Order number	Scope of delivery
GT-CAN-HW-XX	AnaGate CAN galvanic decoupled incl. CD-ROM with documentation, software API as a DLL for Windows 2000/XP/2003
	XX = EU: plug-in power supply for Europe (230V/50Hz)
	XX = US: plug-in power supply for USA (110V/60Hz)
	XX = UK: plug-in power supply for United Kingdom (230V/50Hz)
	XX = WO: no power supply, incl. 2-pin connector cable for 8-28V DC
GT-CAN-AH	Adapter for mounting on DIN rails