



## AnaGate CAN duo

Ethernet / CAN Gateway

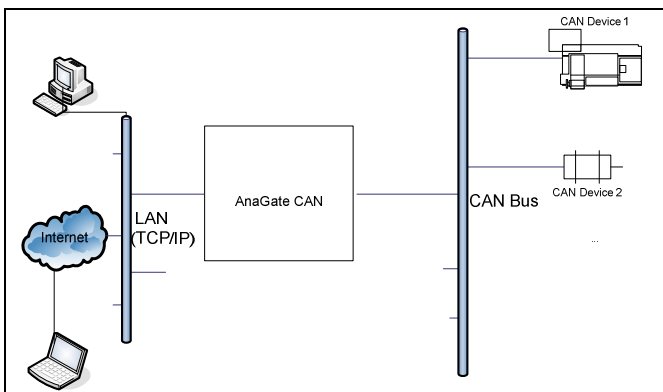
### Product overview

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

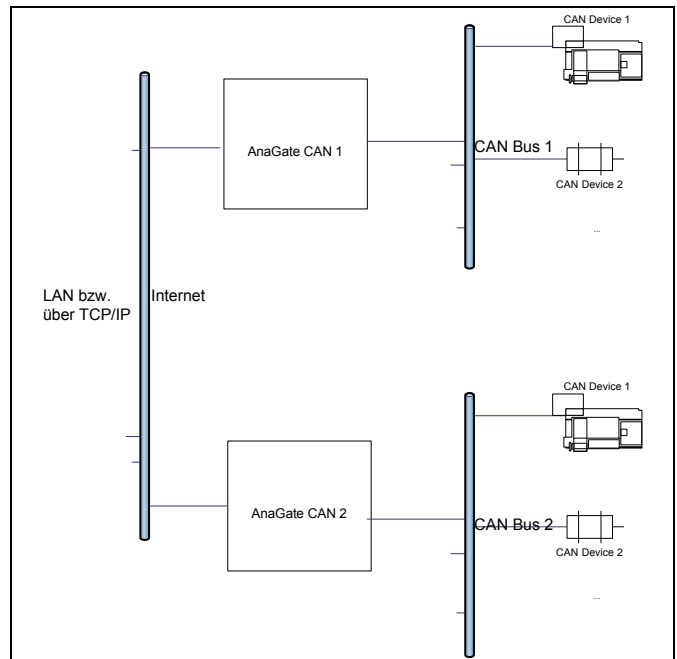
### Bridge mode

In the bridge mode two arbitrary CAN networks are bridged together internally.

### LAN Bridge mode

In the LAN bridge mode each CAN interface can be interconnected to an arbitrary CAN network by an

additional AnaGate CAN/CAN duo.



### Software interface

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

Thus the access to the AnaGate CAN duo 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 duo.

Accessing the device with the supplied windows application library (DLL) is much more 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	9 ..28 V DC or via power supply (EU, UK, US)
Temperature	Operating/Storage	-40 .. +85°C / -40 .. +85°C
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	2x Microchip MCP 2515
	CAN interface	2x ISO 11898-2, galvanically decoupled
	Interface	2x 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..
	Bridge mode	2 CAN networks are connected internally.
	LAN Bridge mode	Both CAN interfaces can be interconnected to an arbitrary CAN network 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. 400mA per channel, max. 500mA total)
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-CAN2-HW-XX	AnaGate CAN duo (commercial Temperature Range) including CD-ROM with documentation, software API as a DLL for Windows 7/XP/2003
GT-CAN2-HWI-XX	AnaGate CAN duo (industrial Temperature Range) including CD-ROM with documentation, software API as a DLL for Windows 7/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)
GT-CAN-AH	Adapter for mounting on DIN rails