



AnaGate I²C Ethernet / I²C Gateway

Product overview

The AnaGate I²C connects a PC to a I²C bus via the TCP/IP network protocol. The AnaGate I²C basically works as a I²C Master on the bus, whereby it can be run in either single-master or multi-master mode. If another master is to be run on the same I²C bus, this must also feature multi-master mode support.

The I²C telegrams are transparently embedded in TCP/IP telegrams to enable communication with any I²C device.

I²C devices can be connected over the Internet or accessed from multiple different PCs over a network.

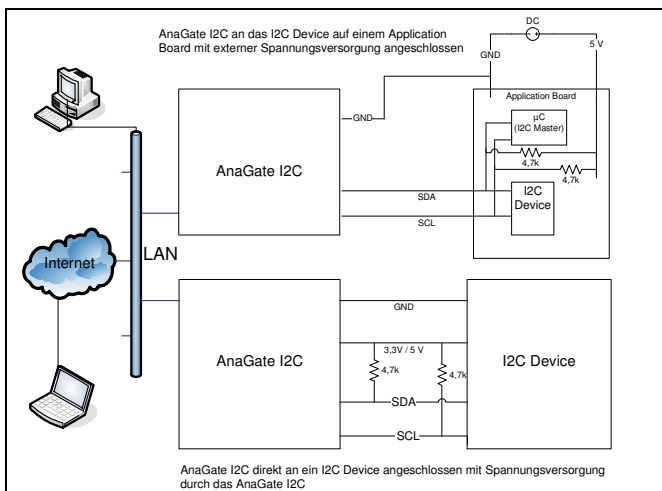
The AnaGate I²C is particularly suitable for programming serial EEPROMs via the I²C bus, whereby the EEPROM can be addressed either on the finished application board or as an independent device. Very easy can this be done by the in-house programming solution "SPI EEPROM Programmer".

Software interface

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

Thus the access to the AnaGate I²C device can be programmed directly 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 I²C.

Accessing the device with the supplied 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	9 ..28 V DC or via power supply (EU, UK, US)
I ² C Bus:	Baud rate	50, 100, 200, 400 kbps, software configuration
	High-Level SCL/SCA	2,7—5,0 V
	System mode	Single and multi-master mode
	Interface	1x DB9 plug incl. SCL, SDA, GND, 3.3V and 5V
LAN Interface:	Baud rate	10/100 Mbps
	TCP/IP	Static or dynamic (DHCP) IP address
	Interface	RJ45 socket
Digital IO:	Inputs	4, galvanic decoupled
	Outputs	4, galvanic decoupled (max. 5mA)
Software:	The I ² C bus can easily be accessed using standard programming languages (e.g. VB, C/C++, Delphi) with a DLL supplied with the device. Configuration via web interface. Linux support is available upon request.	

Ordering information

Order number	Scope of delivery
GT-I2C-HW-XX	AnaGate I ² C including. CD-Rom with manual, Software-API as a DLL for Windows 2000/XP/2003, I2C EEPROM Programmer 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) XX = WO: no power supply, incl. 2-pin connector cable for 8-28V DC
GT-I2C-AH	Adapter for mounting on DIN rails