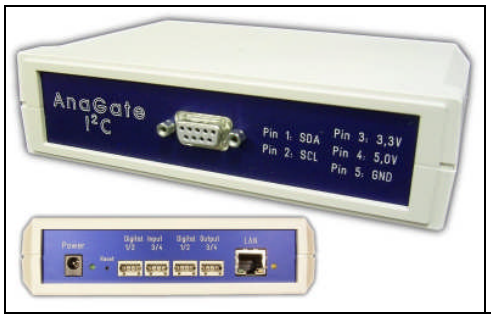


AnaGate I²C

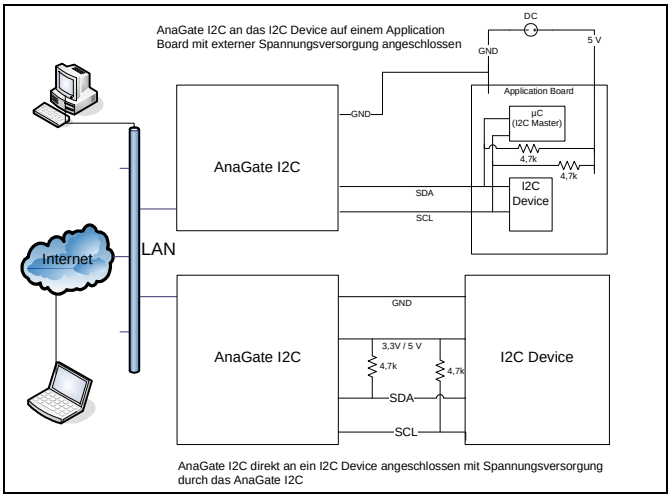
Ethernet / I²C Gateway

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.

Analytica GmbH
Switchboard: +49-721-35043-0
Facsimile: +49-721-35043-59
Sales: +49-721-35043-50
Technical: +49-721-35043-51
http://www.anagate.de

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)
I²C 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 I²C 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 I²C including. CD-Rom with manual, Software-API as a DLL for Windows 2000/XP/2003, I2C EEPROM Programmer 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-I2C-AH	Adapter for mounting on DIN rails

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