USB / CAN

USB-CANmodul series

SYS TEC ELECTRONIC

USB-CANmodul series
Well-proven in thousands of applications

CAN-bus interface and more...

Do you need a high-performance, user-friendly, and adaptive hardware interface for the development, simulation, testing, and maintenance of CAN-bus networks?

Then the USB-CANmodul series of SYS TEC provide you the ideal solution for use with notebook, desktop or industrial computer.

Powered by a powerful 32-bit MCU, the USB-CANmodul series feature up to 16 independently utilizable CAN channels. The software driver is available for Windows as well as Linux and supports up to 64 CAN channels simultaneously.

Now, with our USB-CANmodul you get the new CANopen API for .NET. That's a wrapper around the SYS TEC CANopen stack which is built on the Microsoft .NET framework. The CANopen API for .NET provides a seamless access to a CANopen network for your .NET application.

www.systec-electronic.com/can

Highlights

Virtual CAN Network
with support of microcontroller based timestamps

CANopen API for .NET
now included in our standard delivery content for free

Works great with the ATMEL Flip tool

Enhanced driver support...

On the software side, the USB-CANmodul driver now features so-called "Virtual Networks", which allow connecting multiple applications to one single CAN channel simultaneously. Thereby, the CAN messages are distributed to all software applications and devices connected to the same virtual network.

Of course, the new CAN driver is fully downwards compatible to previous versions. A further extension of the driver allows to run up to 64 CAN interfaces simultaneously on the same PC. This makes possible to connect to different physical networks, yet having all data access centralized in one software application.

Do you have a product idea where this product could fit, yet still has some extra features missing? We provide expanded development services for OEM and customized firmware to meet your demands.

Technical Specification

Feature	USB-CANmodul1	USB-CANmodul2	USB-CANmodul8	USB-CANmodul16
Order number	Please check www.systec-electronic.com/can for order numbers and options			
Bit rate (kbps)	5-1000	5-1000	5-1000	5-1000
CAN channels	1	2	8	16
PC connection	USB2.0 Full-speed	USB2.0 Full-speed	1xUSB2.0 High-speed	2xUSB2.0 High-speed
Temperature range	-40°C...+85°C	-40°C...+85°C	-10°C...+70°C	-10°C...+70°C
Mixed 11/29-bit identifiers	Yes	Yes	Yes	Yes
Galvanic isolation	Yes[1]	Yes[1]	Yes	Yes
High-speed CAN physical layer	Yes	Yes	Yes	Yes
Low-speed CAN physical layer	No	Yes[1]	No	No
Single-wire CAN physical layer	No	Yes[1]	No	No
Listen-only mode	Yes	Yes	Yes	Yes
Error frame detection	Yes	Yes	Yes	Yes
Error counter reading	Yes[2]	Yes[2]	Yes[2]	Yes[2]
Time stamps	Yes	Yes	Yes	Yes
Digital I/Os	No	8 points	4x8 points	8x8 points
LED indicators	3	5	17	33
CAN connector	SUB-D9	2x SUB-D9	8x SUB-D9	16x SUB-D9
Power supply	USB	USB	85 ... 264VAC 9 ... 36VDC	85 ... 264VAC
Current consumption (typical)	110 mA	110 mA	self-powered	self-powered
Housing	table case	table-case	table-case	1HU 19" rack-mounted
Driver support	Windows, Linux, LabView			

(1) Optional
(2) Warning Limit, Error Passive and Bus-off