



# CAN Starter Kit for Windows

## CAN-Starter-Kit

- You always wanted to know:
- What is CAN?
- How does CAN work?
- How can CAN be applied?

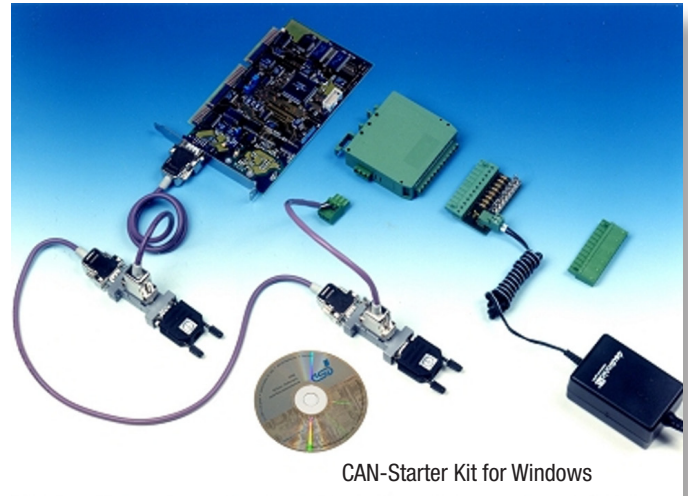
## Here is your solution

- PC CAN interface (CAN-PCI/200, CAN-PCI/331, CAN-USB, or CPCI-CAN/331)
- Digital I/O-Module CAN-CBM-D108
- Simulation block CBM-CSK1
- Wiring incl. terminations etc.
- Power supply
- Drivers and operator software for Windows
- Operating manual

## A complete package:

The complete package is designed to encourage gaining knowledge and experience with CAN in an application. Our kit contains a PC-CAN interface, a digital I/O module (8 channels), the I/O wiring, a simulation block, a power supply, the CAN network including T-connector and terminations, documentation, and the drivers and operator software for Windows.

The parts of the CAN starter kit can be reused and comply with the CiA standards and industrial requirements. All CAN nodes are opto-isolated.



CAN-Starter Kit for Windows

For further information please visit  
<http://www.esd-electronics-usa.com/CAN Starter Kits.html>

## Really simple:

After all components are interconnected according to the documentation, and the driver and the demo program are installed on the PC, you can start a one Mbit per second data transfer to and from the PC.

## Software Included:

The Windows software package includes the self-explaining monitor program CAN-Real that is used to send CAN messages and to monitor each transmitted CAN message on the bus.

Because of the standardized software interface of the esd PC boards, your application will also run with other esd PC boards. esd designs our boards to combine with the starter kit, allowing you to connect further components to your CAN network with minimum effort.

growing with the  
challenge

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## Technical Specifications:

CAN-PC Boards:			
	CAN-PCI/ 200	CAN-PCI/ 331	CAN-USB
Host Interface	PCI	PCI	USB 1.1 (2.0 also available)
CPU/ microcontroller	passive	CPU 68331	16-bit microcontroller
CAN controller	SJA1000, CAN ISO 11898-1		
CAN interface	acc. To ISO11898-2 opto-isolated, bit rate 1 Mbit/s (typ at 37 m bus length)		

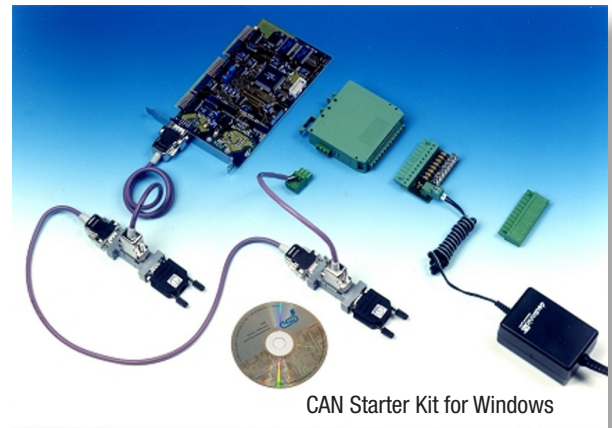
CAN-CBM-DIO8:	
CAN interface:	acc. to ISO 11898, electrically isolated, 1 Mbit/s (max. 10 m bus length), 500 kbit/s (max. 80 m)
Microcontroller:	C515C
Digital I/Os:	8 channels, each channel can be setup as an input or output separately, nominal voltage 24 V

CAN-CSK board:	
I/O simulation:	load resistors for each output, switches for each input power supply: power supply connector for CBM

CAN wiring:	
Cables:	shielded twisted pair bus cables, connector plugs cases made of chrome plated plastic
T-connectors:	two female and one male connector each
Termination plugs:	120 ohm termination resistor, 4.8 mm fast-on male connector to connect CAN_GND to earth potential

Software of CAN-Starter-Kit:	
CAN-CBM-DIO8:	module supports the CANopen protocol
CAN-PC boards:	driver for Windows NT/95/98, CAN-Scope, demo program as a source code

General:	
Temperature:	0...50 /C
Humidity:	Max. 90 %, non-condensing



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## Scope of Delivery

- |   |  |
|---|--|
| 1 | CAN-PC board with one CAN interface (CAN-ISA/200, CAN-PCI/200, CAN-ISA/331, CAN-PCI/331) or Centronics interface CAN-PCC                             |
| 1 | CANbloc®-Mini DIO8 (CBM)   |
| 1 | CSK board for I/O simulation   |
| 1 | power supply (24 V/DC)   |
| 1 | CAN cable 0.25 m (for CBM-DIO8)  |
| 1 | CAN cable 0.3 m (standard)   |
| 1 | CAN cable 1.0 m (standard)   |
| 2 | T-connectors (female-female-male)  |
| 1 | termination plug female  |
| 1 | termination plug male  |
| 1 | 12-pin Combicon-style screw/plug connector (replaces CSK board in field application) set software drivers, CAN-Scope and demo program at floppy disc |
| 1 | set of documentation   |

## Order Information:

Designation		order no.
Windows-CAN-Starter-Kit	with CAN-USB-Mini (scope of delivery as listed)	C.2030.09
Windows-CAN-Starter-Kit	with CAN-PCI/200 (scope of delivery as listed)	C.2030.05
Windows-CAN-Starter-Kit	with CAN-PCI/331 (scope of delivery as listed)	C.2030.03
Windows-CAN-Starter-Kit	with CPCI-CAN/331-1 (1x CAN) (scope of delivery as listed)	C.2030.07

For further information please visit  
<http://www.esd-electronics-usa.com/CAN Starter Kits.html>



esd electronics, Inc.  
 Phone: 800-732-8006  
 Fax: 800-732-8093

Web: <http://www.esd-electronics.us>  
 Email: [us-sales@esd-electronics.com](mailto:us-sales@esd-electronics.com)