



# Users Manual

Version 1.0

Vector Informatik GmbH, Ingersheimer Str. 24, D-70499 Stuttgart  
Tel. +49 711 80670-0, Fax +49 711 80670-111, Email [can@vector-informatik.de](mailto:can@vector-informatik.de)  
Internet <http://www.vector-informatik.de>

---

## Contents

<b>1 Introduction.....</b>	<b>3</b>
<b>2 Connection to the PC .....</b>	<b>4</b>
<b>2.1 Switching Transceivers.....</b>	<b>4</b>
<b>2.2 Meaning of LED .....</b>	<b>5</b>
<b>2.3 D-SUB Connector .....</b>	<b>5</b>
<b>3 Pin Assignments of the D-SUB Connector.....</b>	<b>6</b>
<b>4 Conformity Declaration .....</b>	<b>7</b>
<b>5 Technical Data .....</b>	<b>8</b>
<b>6 Important Notes .....</b>	<b>9</b>

## 1 Introduction

CANpari is a CAN adapter for the PC printer port with a SJA1000 CAN controller from Philips. This permits processing of CAN messages with either 11-bit or 29-bit identifiers. Remote frames can be received and analyzed without limitations. Like all other CAN cards from Vector, CANpari can generate and detect Error Frames on the bus.



Figure 1: CANpari

Two of the most commonly used transceiver chips are included in CANpari. A jumper is used to activate either the Philips 82C250/1 Highspeed Transceiver or the Philips 82C252 Lowspeed Transceiver.

## 2 Connection to the PC

CANpari can be operated on the LPT1 or LPT2 printer port. It is important that the interrupt be activated for the specific printer port. Voltage is supplied via an adapter plug that is plugged into the mouse or keyboard port.

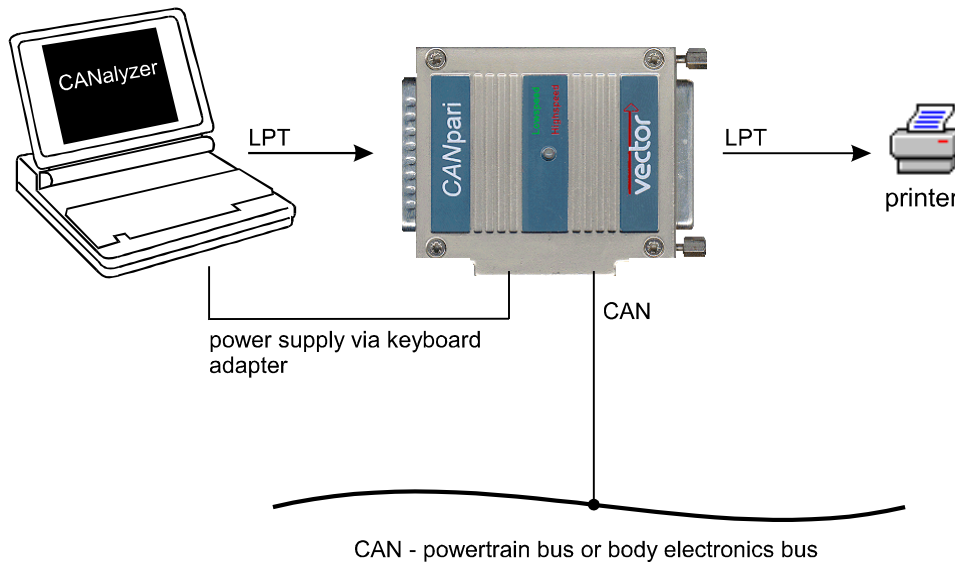


Figure 2: CANpari Connection Scheme

### 2.1 Switching Transceivers

To set the active transceiver chip, first the CANpari housing must be opened, then the three jumpers must be reconfigured. To open the housing remove the four screws and lift the cover off. The jumpers are located along the edge of the PC-board between board terminations for the two voltage supply lines and the CAN connector (see Figure 3).

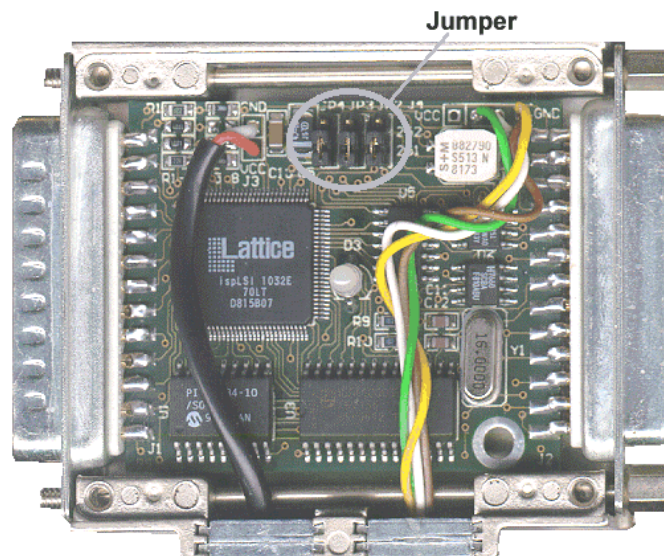
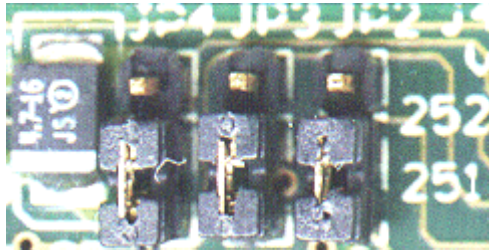


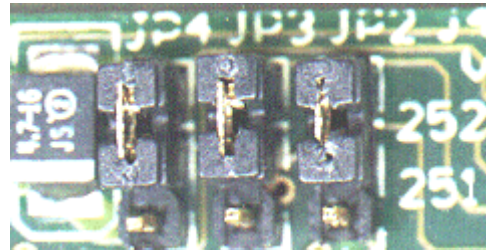
Figure 3: Jumpers for Selecting the Transceiver

There are two jumper positions marked "251" for Highspeed and "252" for Low-speed. All three jumpers must always be set to the same position.

Jumper setting for Highspeed



Jumper setting for Lowspeed



The configured transceiver mode is recognizable by the color of the LED. Green for Low-speed, red for High-speed.

## 2.2 Meaning of LED

When voltage is being supplied to CANpari the LED illuminates. The LED color indicates the transceiver mode that is configured: Green for Low-speed, red for High-speed. The LED turns off after CANpari has been initialized by the system. When the chip is activated by software (e.g. CANalyzer) the LED starts to flash.

## 2.3 D-SUB Connector



Figure 4: D-SUB Connector

The CAN bus is connected to CANpari via the 9-pin D-SUB connector (see Figure 4).

### 3 Pin Assignments of the D-SUB Connector

<b>D-SUB Pin Number</b>	<b>Function</b>
1	-
2	CAN-Low
3	GND
4	-
5	-
6	GND
7	CAN-High
8	-
9	-

## 4 Conformity Declaration



# CONFORMITY DECLARATION

This declaration applies to products identified as follows:

Product type: CAN adapter for PC printer port  
Product name: CANpari

We hereby declare that this product conforms to the following standards:

EN 55022: 1994  
EN 50082-1: 1992

This declaration is provided for the manufacturer

Vector Informatik GmbH  
Friolzheimer Straße 6  
70499 Stuttgart

by its authorized quality management representative

Peter Lampert

Quality Management

Stuttgart, 28. September 1998

A handwritten signature in black ink, appearing to read 'P. Lampert'.

Peter Lampert

Quality Management

## 5 Technical Data

### Technical Data

#### Hardware

- CAN Channels 1 (V2.0B extended format).
- CAN Transceiver 80C251 (Highspeed) or 80C252 (Lowspeed) selectable by jumpers.
- CAN Controller 1 Phillips SJA 1000
- Max. Baud Rate 1000kbit/s
- Time Resolution 1ms
- Error Frame
  - Detection Yes
  - Generation Yes
- Hardware IBM PC AT or 100% compatible with Centronics Requirements printer port
- PC Interface 25-pin D-Sub, printer port is passed through.
- Software Requirement Windows 95/98/NT
- Configuration IRQ7 => LPT1; IRQ5 => LPT2
- Dimensions 75mm x 55mm x 18mm
- Temperature Range Operating: 0 - 55 °C, Shipping/Storage: -65 - 125 °C



## 6 Important Notes

- Do not apply excessive force when inserting the CANpari device or adapter plug in the computer.
- Do not remove the CANpari device from the computer by pulling on its connection cords.
- Make sure that the CANpari and its connection cords are fastened securely.