CARD PCI-MUX-C3V2L :

PCI board – CAN HS or LS, VAN, ISO/LIN

Description	PCI format PC board
	. 1 CAN channels
	. 3 VAN channels
	. 2 LIN or ISO9141 channels
Protocol	. CAN : 1 x SJA1000
controller	. VAN : 6 x TSS461C
	. ISO9141/LIN : 1 x DUART 26C92
Line interface	. CAN high speed : PCA82C251
	. CAN low speed : TJA1054
	. VAN : 3 x MTC30522 (REMX)
	. ISO9141/LIN : Type pull-up, pull-down
	or LIN
I / O	2 x 0-12V inputs
	4 open collector outputs
Time base	1 ms clock
Connector	1 DB25 & 1 DB15
PC Interface	Bus PCI 33MHz
Dimensions	180 x 110 mm
Power supplies	+5V and +12V supplied by the PC or
	external battery
Storage temp.	-40 to +85 °C
Operating temp.	0 to 70℃



OBJECTIVES :

The PCI-MUX-C3V2L boards are products from the **EXXOTEST** range. These PCI format boards enable interfacing a PC type with a CAN high speed or CAN low speed - fault tolerant, VAN and ISO9141/LIN networks.

The boards have the following channels:

- 1 high speed CAN or low speed CAN channel - *fault tolerant* configurable with the software.

- 3 VAN Networks (Norm ISO 11519-3)
- 2 vehicle diagnostic channels (ISO 9141 standard) or LIN master and slave channel
- 2 Digitals inputs and 4 digitals outputs
- 1 ms time base

CHARACTERISTICS :

CAN link main characteristics

Protocol controller: PHILIPS SJA1000 (CAN 2.0B standard)

- Identifier standard 11 bits and extended 29 bits
- Data transmission / reception of up to 8 bytes
- Remote transmission request (RTR)
- Non intrusive mode (no acknowledge or error frame)
- Reading of internal error counters and detailed information in case of bus error.
- High speed line interface: PHILIPS PCA82C251 (ISO 11898–24V standard)
- Transmission rate up to 1 Mbits/sec
- Connection of up to 110 stations on the network
- Short-circuit to earth and battery >24V
- Adjustment of termination resistance between CANH and CANL by jumper
- Adjustment of signal slope with software (vertical or horizontal fronts).

Low speed line interface: PHILIPS TJA1054 (Fault tolerant CAN transceiver)

- Transmission rate up to 125 Kbit/sec
- Connection of up to 32 stations on the network
- Transmission in differential mode, can operate on 1 wire
- Detection and processing of downgraded modes (short-circuit and open circuit)
- Operating data feedback to application in downgraded mode (ERR)

- Standby / wake-up signals management (STB, EN, WAKE and INH), power relay control output (INH)

Main characteristics of the VAN link

Protocol controller: TSS461C (Norm ISO 11519-3)

- Detection and processing of downgraded modes (short-circuit and open circuit)
- Data transmission / reception of up to 28 bytes

- Processing of all VAN services (Data frame with or without acknowledgement, Request an in frame response, In frame response, Differed reply message)

- VAN line interface: MIETEC MTC30522 (Norm ISO 11519-3)
- Transmission rate up to 125 Kbit/sec
- Transmission in differential mode, can operate on 1 wire
- Standby / wake-up management

Main characteristics of the ISO 9141 / LIN link

- ISO 9141 standard
- Direct management of K and L lines
- Transmission rates (ISO9141) of 10400 bauds and 62.5 Kbauds
- Configuration in pull-up, pull-down mode or jumper tester (ISO9141)
- Configuration in master or slave mode by jumper (LIN)
- Transmission rates (LIN) of 2400, 9600, 19200 and 20833 kbit/s

SOFTWARE LIBRARY :

DLL-MUX-xxx: A software functions library which enables fast and simplified use of the different networks on the board. These functions are grouped together in a dynamic library (32-bit DLL) and are available for the Windows 95, 98, NT, ME and XP operating systems, offering the following features:

- Network configuration and transmission / reception functions.
- Access to several networks and boards simultaneously
- Possible under certain conditions to date stamp messages transiting over the network.
- Calculation of bus load, statistics counters, application timer, downgraded modes...

For more details on the features of the functions and the different networks supported, see the DLL-MUX-xxx sales technical data sheets.

OPTIONS :

MUXTRACE-EXP: Multiplexed data analysis and graphics interpretation software.

ORDER REFERENCES :

References	Characteristics
PCI-MUX-C3V2L	- PCI-MUX-C3V2L board with software configurable CAN channel, 3 VAN channels and 2 LIN
PCI-IVIUX-C3V2L	or ISO9141 channels
	- DLL-MUX-CAN, DLL-MUX-VAN, DLL-MUX-ISO and DLL-MUX-LIN software library for
	Windows 95, 98, NT, ME and XP

www.exxotest.com

WARRANTY : 2 years Parts an Labour.

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Z.A. Les Marais – BP157 – F74410 ST JORIOZ Phone :+33/0 450 689 065 Fax : +33/0 450 685 893