

DLC-MUXDIAG-II-Indus Industrial Data logger –CAN HS/LS, Diag on Can, LIN/ISO9141 networks

Based on the EXXOTEST[®] USB-MUXDIAG-II communication interface, the DLC-MUXIAG-II-Indus data logger allows an autonomous acquisition of exchanged data on CAN HS/LS, LIN/ISO9141, Diag On CAN communication networks and through 2 analog or digital inputs. It is equipped with a USB link for its configuration and records recovery. Moreover, it integrates a "power supply maintaining" system allowing a clean record closing in case of power supply cut during recording.

Its design fits particularly with an industrial use: e.g. the recording of exchanged data between a downloading/configuration tool and a vehicle during its manufacturing.

Available channels:

- 2 CAN high speed channels (ISO 11898 standard), 1 of both channels can be commuted from the PC software in low speed fault tolerant channel. Both of them implement the Diag On CAN protocol (ISO 15765-2).
- 2 ISO9141 or LIN channels with 510 Ohms « Pull-up » resistors.
- 2 LIN or ISO9141 channels with 1Kohms or 30Kohms « Pull-up » resistors.
- 2 analog or digital inputs (1 of both for power supply supervision input).

	Main characteristics
Description	Industrial USB case . 2 CAN channels . 2 LIN / ISO9141 channels . 2 ISO9141 / LIN channels
Protocol controllers	. CAN : 1 x TWINCAN . LIN / ISO9141 : 2 x UART
Line interfaces	. CAN high speed : 2 x TJA1040 . CAN low speed : 1 x TJA1054 . LIN : 2 x MC33661 (Master or slave)
Inputs	1 Analog or Digital 0-16.75V input 1 Analog or Digital power supply supervision input
Time base	100 μsec clock
Memory	4Gb Removable CF card
Connector	Specific
PC Interface	USB 2.0 bus
Size	140 x 58 x 23 mm
Power supply	External 6-36V (vehicle) or USB
Storage temperature	-40 to +85°c
Working temperature	0 to +70°c
Insulation	No



Special design by your request.

« DLC » software - functionalities:

- Activate and set up channels (protocol, baud rate, associated databases, filters, association of Diag On CAN requests emission table, ...)
- Activate and set up analog or digital inputs
- Define triggers (on signal, frame, protocol, error, bus load rate, ...)
- Set up start and stop record conditions (based on triggers combinations and/or remote control) and pre-trigger / post-trigger durations
- Power supply management (stand by modes)
- Memory management: recovery of recorded data in asc file format, formatting...
- Embedded clock synchronization set up.

Find all our products on the Internet: www.exxotest.com

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Communication Networks Expertise

CAN channel characteristics:

Protocol controller: TWINCAN (CAN 2.0B standard)

- Standard identifier 11 bits ; extended 29 bits
- Spy mode (no acknowledgment or error frame)
- Reading of counters of internal errors and detailed information in case of bus error

High speed line interface: PHILIPS TJA1040

- Baud rate up to 1 Mbit/sec
- Transmission in differential mode

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

- Baud rate up to 125 Kbit/s
- Detection and treatment of degraded modes

ISO9141 channel characteristics:

- ISO 9141 or ISO14230 standard
- Baud rate of 9600, 10400, 62500 and 125000 bauds

LIN channel characteristics:

- LIN specification Rev 1.2, 1.3, 2.0
- Baud rate of 2400, 9600, 19200 and 20833 bauds
- Pull-up resistor configuration in master mode (1Kohms) or slave mode (30 Kohms) to be applied through software.

Additional tools and accessories



Software:

MUXTRACE Expert: Buses analyser and emulator for protocols: CAN HS/LS/SW, LIN/ISO9141, VAN & Diag On CAN

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Software Libraries:

Software library enabling simple and fast interfacing with a PC application using Windows 95, to Vista(32) operating systems with CAN HS/LS/SW, LIN, ISO9141, Diag On CAN networks.

The functions available in this library enable the user to make his application transparent with regard to the protocol controllers and line interfaces resident on the board.

- Network configuration and transmission / reception functions.
- Access to several networks and boards simultaneously (identification of board position on the USB bus)
- Possibility under certain conditions to date stamp messages transmitting over the network.
- Calculation of bus load, statistic counters, application timer, downgraded modes...

More details on the features of the functions and the different networks supported, onto the DLLMUXxxx technical data sheet.

Included: 8 Gb CF card, USB cable, CD-Rom containing drivers and data loggers set up & recovery software « DLC ».

PC software and embedded software updates free and unlimited at www.exxotest.com

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