

DLO-MUXDIAG-II

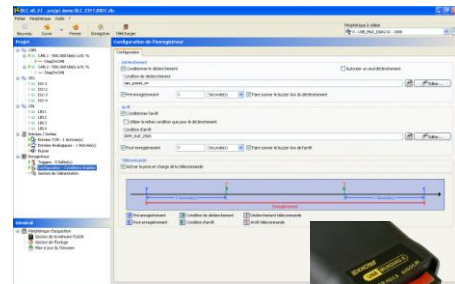
Data logger –CAN HS/LS, Diag on Can,
LIN/ISO9141 networks

The DLO-MUXDIAG-II data logger is a product from the EXXOtest® “Communication Networks Expertise” range of hardware and software solutions.

Based on the EXXOtest® USB-MUXDIAG-II-RN communication interface, the DLO-MUXDIAG-II 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 also allows autonomous Diag On CAN requests emission.

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	« Open » 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 : 3 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
Timebase	100 µsec clock
Memory	4Gb Removable CF card
Connector	1 x J1962 (16 pins OBD male)
PC Interface	USB 2.0 bus
Size	140 x 58 x 23 mm
Power supply	External 6-36V (vehicle) or USB
Storage Temp.	-40 to +85°C
Working Temp..	0 to +70°C
Insulation	No



Pin	Name
1	ANA INPUT
3	CAN HS1_H
4	GND
5	GND
6	CAN HS2_H
7	K Line / LIN 1
8	CAN HS1_L
9	CAN LS1_H
10	CAN LS1_L
11	K Line / LIN 2
12	LIN / K Line 3
13	LIN / K Line 4
14	CAN HS2_L
15	L Line 1
16	VBAT

« DLC » software - fonctionnalités :

- ✓ 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

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.

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 DLLMUX-xxx technical data sheet.

Included : remote control, 4 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

Additional tools and accessories

Softwares :

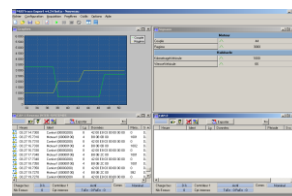
MUXTRACE Expert : Buses analyser and emulator for protocols : CAN HS/LS/SW, LIN/ISO9141, VAN & Diag On CAN

Cables / adaptators :

AMUX-C4C-DB9 : 2 m twisted cable with DB25 to 4 x SubD9 (CAN channels)

AMUX-2C2L : 4 SUBD9 (2 CAN and 2 LIN) adapter to a 16 pins female connector J1962 (OBD-II)

AMUX-YOBD : 16 pins male connector to 2 x 16 pins female connectors adapter J1962 (OBD-II)



Documents and downloads : www.exxotest.com