



The **VCI-MUXDIAG-3** is a compact multi-protocol communication interface particularly suited to the analysis and diagnosis of the electronic architectures equipping the most recent vehicles and mobile machines.

It allows to interface, via a USB2.0 high speed link, a PC-type computer to communicating systems and networks of systems.

This 3rd generation of the "Exxotest<sup>®</sup> Muxdiag" interface now offers CAN FD, Ethernet (DoIP) and BroadR-Reach<sup>®</sup> channels.

#### Channels available simultaneously:

- 1x canal CAN FD / High Speed
- 1x canal CAN FD / High Speed or CAN Low Speed
- 1x canal Ethernet (DoIP) or BroadR-Reach<sup>®</sup>
- 1x canal LIN + 1x canal LIN or ISO9141 K/L

#### CAN channels

- Standard 11-bit (CAN2.0A) and extended 29-bit (CAN2.0B) identifier support
- CAN FD / HS in accordance with ISO 11898 standard
- Baudrate up to 5Mbit/s, setup by software
- Termination resistance act./deact. setup by software
- CAN LS in accordance with ISO 11898 standard
- Baudrate up to 125 kbit/s, setup by software
- CAN LS pull resistor setup by software

#### LIN and ISO9141 K/L channels

- LIN in accordance with ISO 11987
- Baudrate up to 20833bit/s, setup by software
- LIN Master/Slave pull resistor setup by software
- Baudrate up to 250kbit/s, setup by software
- Simu./Tester modes pull resistor setup by software

#### Ethernet and Automotive Ethernet channels

- Software-driven DoIP activation line
- Optional adaptation interface for acquiring data exchanged between 2 BroadR-Reach<sup>®</sup> entities

#### APIs – Software libraries

For the development of your own applications (except DoIP), the programming interface "EXXOTEST\_AGHAF", its documentation, examples and drivers are freely available on the support area of the Exxotest website.

The development of Diagnostic over IP (ISO13400) applications requires the purchase of a software license for the use of the "EXXOTEST\_DOIP" programming interface.

## Features

Main features	
Présentation	PC box with USB link
Channels / Standards	. CAN FD / High Speed : ISO11898-2:2016 . CAN Low Speed : ISO11898-3:2016 . LIN : ISO17987-4 (12V LIN) . ETHERNET : 100BASE-TX – 10BASE-T . BroadR-Reach® : 100BASE-T1
Entrées / sorties	1 analog. / digital 0-36Vdc input 1 DoIP activation line output
Timestamping accuracy	1µsec
Connectors	1x male D-SUB HD 26 pins 1x USB type C
PC interface	USB2.0 High Speed
Operating Systems (USB drivers)	Windows® 7 and higher, 32 et 64bits Linux (coming soon)
Size	131 x 71 x 34.5 mm
Power supply	External 8-36Vdc / 1A USB 4,5 – 5,5vdc / 500mA
Storage temperature	-20 to +70°C
Working temperature	-20 to +70°C
CE conformity	ROHS2 CEM
Insulation	Optional

Signals distribution D-SUB HD 26 voies	
Signal	Pin
Ethernet Tx(+)	1
BroadReach N	2
BroadReach P	3
Masse châssis	4
Masse signal	5
CAN LS 1 Low	6
CAN LS 1 High	7
CAN FD HS 1 Low	8
CAN FD HS 1 High	9
Ethernet Rx(+)	10
Ethernet Tx(-)	11
ISO9141 K line	12
n.c.	13
n.c.	14
n.c.	15
VBAT	16
CAN FD HS 2 High	17
CAN FD HS 2 Low	18
Ethernet Rx(-)	19
ISO9141 L line	20
n.c.	21
Synchro	22
DoIP activation signal	23
+APC	24
LIN 2	25
LIN 1	26

## Content

The VCI-MUXDIAG-3 interface is delivered in a case accompanied by:

- USB type C cable
- CE certificate
- Quick start guide

## Available accessories

Range of wiring harnesses to vehicle diagnostic socket, BroadR-Reach® interfacing bundles, test boxes, "EXXOTEST\_DOIP " API, etc.

## Warranty

2 years out of bundles and accessories

## Order reference

VCI-MUXDIAG-3

