XS Basic+ XS
communication ▶ interface

CAN/K- Line connector

CAN2_L
K- Line2
K- Line1
CAN- GND
CAN1_L
Power +12 VDC

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15

Sub- min- D male 15 pol

Power- GND
CAN1_H
CAN2_H

Note: Pin 1; 5; 12; 13; 14; 15 please do not connect !

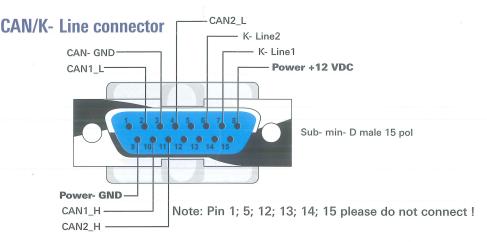## Technical Data

- CAN interface: up to 1MBit/s
- PC interfaces: RS232 up to 115kBaud
  USB full speed mode (USB 1.1)
- dimension: 150 x 68 x 25 mm
- weight:ca. 200 g
- temp. range: 0 to +55°C
- housing: plastic
- power supply: 8..32 V DC (via Sub- D) for part number IME3901208
  8..16V DC (via Sub- D) for part number IME3901206
- power cons.: typ. <100 mA @ 12 VDC
- microcontroller: C165
- memory: 512 kByte RAM (16 Bit)
  128 kByte Flash (8 Bit)
  512 Byte EEPROM (8 Bit)
- CAN controller: SJA 1000
- CAN1: CAN 2.0B high speed 82C251
- CAN2: CAN 2.0B low speed TJA 1054
- K- Line: 2 ISO9141 type 5 K- Line controlled by microcontroller kernel or direct by the RS232 interface (both K- Line can be controlled by one UART only in parallel) max. sink in current at K- Line 100mA

CAN K-Line J 1850 J 1708

IR 11592D

ACTIA®
ACTIA I+ME GmbH

Basic+ XS

ACTIA I+ME GmbH thanks you for having chosen our product

Serialnumber Hardware	Password Level X driver	Licence Key XS Sequencer	Licence Key XS Monitor
Standard edition	Standard edition	add on software	add on software

Hardware

Product includes

12V/24V Basic+ XS hardware with RS 232 and USB connector cable

About it

Basic+ XS

Basic XS is a communication interface providing data link between a vehicle and a PC.

This interface enables data communication on K- Line and CAN 2.0 B busses.

API, Drivers & Software

Product includes — **on CD**

CAT/Basic+ XS (LevelX) RS 232 and USB Driver

LevelX Demos/API Manual

Software "PcCANcontrol" application

Designed & — **manufactured by**

ACTIA I+ME GmbH
Dresdenstr. 17/18
38124 Braunschweig

Germany

Tel : + 49 (0) 531 38 70 1 0
Fax : +49 (0) 531 38 70 1 88

www.ime-actia.com
mail: info@ime-actia.de

Installation guide

! Important before starting

Power **supply**

1. The Basic+ XS is powered solely via Sub- D from the vehicle. If you use an external power supply for the vehicle or a device under test, make sure that there is a good ground connection between the PC, the vehicle ground and the external device. Otherwise the Basic+ XS may be damaged.

2. **Attention:**

- Basic+ XS, part number IME3901206, power supply 8..16 V - > **Do not connect to 24 V !**

- Basic+24 XS, part number IME3901208, power supply 8...32 V - > Can be connected to 24 V.

⚠ Safety instructions

Please read all safety instructions

- Do not use the equipment when the environment temperature is higher than +55°C or less than +/- 0°C.
- Voltage via external power supply: 8..32 V DC.
- Do not get in contact with fluid.(water, acid, solvent,etc.)
- Do not drop the equipment.
- Always unplug equipment from electrical power supply when not in use.
- To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
- Variation and deviation of external voltage outside admissible tolerances can damage the equipment.
- For cleaning the equipment from the outside a damp cloth with mild cleaning agent can be used. Do not use solvent.

Start

Software **requirements** **1.**

You need Internet Explorer, Mozilla Firefox or other internet browser.

Software **installation** **2.**

Insert CD ROM, the CD starts up automatically. If automatic function is disabled please open the file "index.htm" manually.
Choose the menu item "Software"& go to the required product (make sure to choose the right operating system). Click the file & validate the requested execution.
Once the file is started, follow the installation instructions on the screen. If necessary type in your personal license key or password.
NOTE: latest software version you can find at our WEB- page: www.ime- actia.de

Hardware **installation** **3.**

Plug in the hardware and start the application program.

⚠ Notes

In case of USB link disfunction please use the USB bootloader update package. This package enables you to update the USB bootloader via the RS232 link of the Basic+ XS. Bootloader update package available on www.ime- actia.de!

If you are writing your own firmware on the Basic+ XS, using the flash memory, the USB link will not function anymore (the bootloader is needed in the flash memory). For further questions, please contact us.