



# PassThru+ XS

communication ► interface





# PassThru+ XS

I+ME ACTIA thanks you for having chosen our product



## Hardware



## API, Drivers & Software

**Product includes** IME 3902401



PassThru+ XS hardware with RS 232 and USB connector cable  
OBD Cable 2m

**Product includes** on the Web

PassThru+ XS API (software for Windows 9x, ME, NT, 2000, XP) is available on [www.passthruxs.com](http://www.passthruxs.com)



## About it

**PassThru+ XS**

PassThru+ XS is a communication interface providing data link between a vehicle and a PC, enabling you to communicate with the ECU's according to the J2534 & J2534- 1 specifications.

**Designed & manufactured by**

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## Technical Data

- PC interfaces: RS232 up to 115kBaud  
USB 1.1 alternatively
- dimension: 150 x 68 x 25 mm
- weight: ca. 250 g
- temp. range: 0 to +55°C
- housing: plastic
- power supply: 7..30 V DC (via Sub- D)

Supported protocols:

- CAN 2.0B ISO 11898, CAN ISO 15765- 4
- SAE J1850 VPW, SAE J1850 PWM
- K- Line ISO 9141 (100mA), ISO 14230- 4 (KWP 2000)
- SAE J 2610 (SCI)
- programmable power supply 1- 20 V

# Installation guide



## 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: 7..30 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.



## Important before starting

### Power supply

1. The PassThru+ 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 PassThru+ XS may be damaged.

### 2. Attention:

- Supply Voltage 7..30 V

### Consumer notice

The i+ME ACTIA product you have purchased is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE) and, in jurisdictions adopting that Directive, is marked as being put on the market after August 13, 2005, and should not be disposed of as unsorted municipal waste.

Please utilize our local WEEE collection facilities in the disposition of this product and otherwise observe all applicable requirements.



## Start

### Software requirements

1.

You need Internet Explorer, Netscape or other internet browser.

### Software installation

2.

Go to our Website [www.passthruxs.com](http://www.passthruxs.com)

Go to the download Area (see menu on the Top) or tip

[www.passthruxs.com/download.htm](http://www.passthruxs.com/download.htm)

Download the PassThru+ XS API for the workshop.

Follow the steps of the installation.

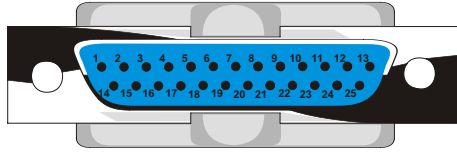
The two different packages for the J2534 API and the J2534- 1 API can be installed in parallel if necessary.



# Technical Data



## Connector



Pin	Diagnostic Interface Connector	1. K- Line	SCI 1*	2.K (L)- Line 2*	CAN (HS) 3*	CAN (LS) 3*	J1850 PWM 4*	J1850VPW 4*	prog. volt. 5*	short to GND 6*	analog measurement 7*
1 manufacturer discretionary	x										x
2 SAE J1850 (+)						(+)	x				
3 manufacturer discretionary	x				(+)						x
4, 5, 25 GND											
6 CAN (+)		Rx		(+)				x			
7 K- Line	x	Tx	x								x
8 manufacturer discretionary	x										x
9 manufacturer discretionary	x	Rx						x			x
10 SAE J1850 (-)						(-)					
11 manufacturer discretionary	x	Rx			(-)			x			x
12 manufacturer discretionary	x	Rx						x			x
13 manufacturer discretionary	x	Rx						x			x
14 CAN (-)		Rx		(-)				x			
15 L- Line		Tx	x						x		x
16, 24 Batt. Volt. (Power supply. 7-32V)											x
17 Cable ID											x
18 Cable ID											x
19 SPI											
20 SPI											
21 SPI											
22 PWR +5V Out/SWC											
23 PWR Out GND											

for future use  
please do not connect

1\* Tx Rx mentioned in this column is ECU RX and ECU TX.

2\* Each of the K-Line drivers can be connected to the K-Line or L-Line(K)-Line or SCI pin multiplexer.

3\* Each CAN bus can be disconnected from the Pins by a software controlled relay.

4\* By a software controlled relay it is possible to select J1850 PWM or VPW on these pins.

5\* By a software controlled relay multiplexer it is possible to connect the programmed voltage supply to these pins.

6\* The short to ground connection can be done by a software controlled relay.

7\* The analog measurement at the K-Lines is done using the K-Line multiplexer (only two analog inputs, one for K-Line one for L-(K)/SCI Line).

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