

# SMB4CAN

- ▶ Converter for up to 4 ETAS Lambda Meter from SMB bus to CAN bus
- ▶ For use of ETAS LA3, LA4 or other compatible devices
- ▶ All values available via CAN bus:  
λ, O<sub>2</sub>, A/F, Ri
- ▶ For calibration and measurement systems of ATI, dSPACE, ETAS, IAV, National Instruments, Vector, CSM, various inhouse systems e.g. of Saab/GM, Volvo...
- ▶ Integrated in CSM INCA AddOn



## SMB4CAN

SMB4CAN addresses users, who want to do data acquisition via High-Speed CAN bus and use at the same time Lambda Meters LA3, LA4 of ETAS or other compatible devices.

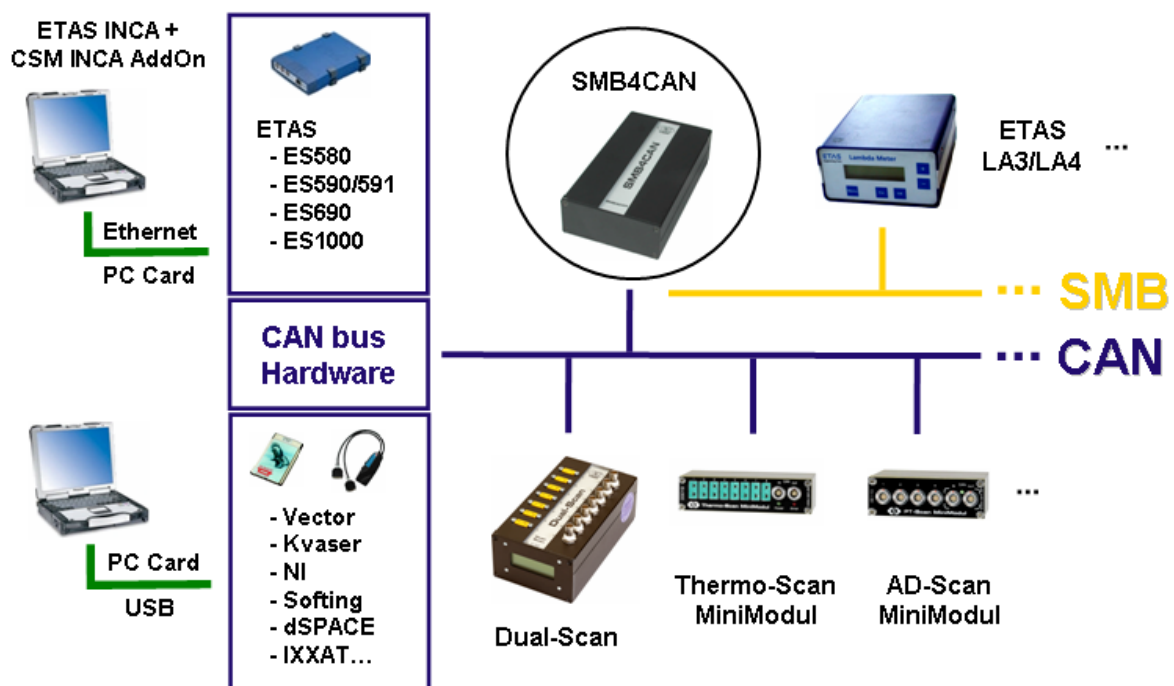
SMB4CAN communicates with up to **4 Lambda Meters** via SMB bus concurrently and makes **all measurement values** available on the CAN bus with 16 bit resolution.

SMB4CAN is a member of the xx-Scan device family, which also AD-Scan, Thermo-Scan and Dual-Scan belong to.

## Configuration and data communication

Configuration can be done via serial device interface using any terminal program. The CAN identifiers are user defined. All values of up to 4 Lambda Meters are transmitted in **free running mode**. This way of CAN bus data transmission can be integrated very easily and efficiently into specific applications and is supported by well known calibration and measurement systems like INCA, CalDesk, CANape, Vision, DIADEM, etc.

By using **INCA AddOn** from CSM configuration can be done directly in INCA.



## Specification SMB4CAN

Item	SMB4CAN
<b>Data acquisition</b> <b>Serial interface</b> cascadable	<b>RS232C, 38400 Baud</b> max. 4 devices of type ETAS LA3, LA4 or other compatible devices
Software protocol	SMB bus
<b>Connector</b> <b>Serial interface</b>	DSUB9 female compatible with serial chain up cable K40 (for data acquisition) as well as with connecting cable K38 (for configuration via PC)
<b>Data transmission</b> <b>CAN interface</b>	<b>CAN 2.0B (active)</b> High-Speed CAN (ISO11898) 125kBit/s to max. 1MBit/s (configurable)
<b>Connector</b> <b>CAN interface</b>	CAN IN: DSUB9 female, pin assignment according CiA CAN OUT: DSUB9 male, pin assignment according CiA compatible with CAN chain up cable K43 and bus terminating resistor K44
<b>Measurement cycle</b> each Lambda meter for 4 Lambda meters	10 ms 40 ms
<b>Measurement values</b>	ETAS LA3, LA4 λ-value O <sub>2</sub> -value A/F-value Ri-value (each value with 16bit)
<b>Dimensions (W x H x D)</b>	approx. 105 x 45 x 185 mm (4.13 x 1.77 x 7.28 inch)
<b>Weight</b>	approx. 550 g (19.40 oz)
<b>Ambient temperature</b>	0°C to +70°C (32°F to +158°F)
<b>Humidity</b>	max. 80% (non condensing)
<b>Power supply / overvoltage</b>	8 – 32 V DC 32 V continuous
<b>Current drain/ Power consumption</b>	typ. 90 mA at 12 V typ. 1100 mW / max. 1400 mW
<b>Connector</b> <b>Power supply</b>	DSUB9 female compatible with power cable K39
<b>Conformity</b>	CE

### Lieferumfang:

- SMB4CAN device with connecting cable K38 (for configuration via PC), power supply cable K39, CD with operating instructions and other documentation.

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