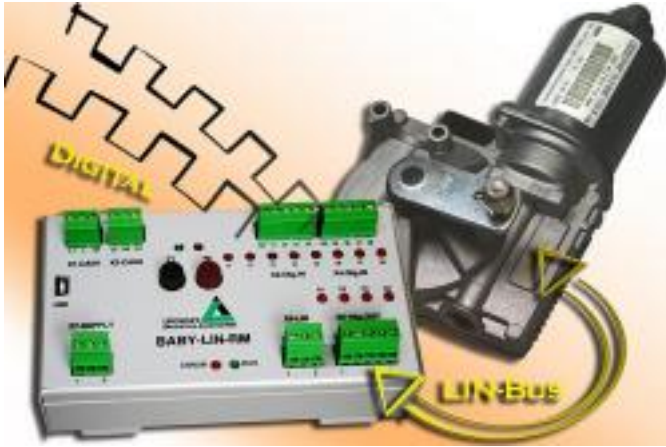


Baby-LIN-RM, the PLC - LIN-bus translator

Date: 09-23-2008 06:53 PM CET

Category: [Industry, Real Estate & Construction](#)

Press release from: [Lipowsky Industrie-Elektronik GmbH](#)



The increasing number of networked ECU's in today's automobiles leads to an fast rising amount of test applications, where LIN based systems need to be handled.

Due to the integration of mechanics, actuators and electronic control circuits into complete, non separable mechatronics systems, it is not possible to operate such a system without a proper LIN bus excitation.

While a conventional window lift motor could be driven with 2 simple relays for up and down operation, this approach will no longer work with a LIN equipped window lift motor.

Supplying power to such a LIN motor will not cause any operation. Only with simulation of the LIN-Bus signals, as they are present in the real vehicle, an operation of the motor will be possible.

This calls for a "restbus simulator", a device which allows to generate the LIN-Bus signals in the same way as they are available in the real car. The Baby-LIN-RM is such a simulation device.

The Baby-LIN -RM combines an universal and easy-to-configure LIN bus simulator with plc-compatible digital input and output features.

This allows to influence the simulation process by digital control signals generated by a PLC. So you can change the value of specific signal or switch between different schedule tables.

The digital outputs of the Baby-LIN-RM devices ca be used in different ways. You can generate output signals to identify a LIN signal exceeding a given limit, or define an output to monitor the state of a specific signal bit.

These digital I/O features make the Baby-LIN-RM a very helpful tool to upgrade existing test bench application with LIN bus functionality.

An additional CAN interface can be configured to operate as a CAN to LIN Gateway.

The USB interface provided for device setup can also be used for monitor and recording functions.

The signals can be displayed in real time and are presented in easy to understand scaled physical values.

The windows software LINWorks includes the plug and play SimpleMenu application, which allows to access the LIN bus without the need develop any software.

If you want to access the LIN bus from within your own application the included DLL comes into action.

Sample programs in Visual Basic, C# , LabView or Phytion are available as well as a Linux version of the LINWorks suite.

The Baby-LIN-RM module has a rail mountable aluminium housing. The system is available from stock.

Company info:

Founded as an engineering bureau by Dipl.-Ing. Andreas Lipowsky in 1986.

Changed to Lipowsky Industrie-Elektronik GmbH in 1992.

Activities:

Development and production of mikrocontroller equipped electronic units for automotive, industrial and scientific applications. We are specialized on LIN and CAN-Bus systems and realtime, multitasking applications.

Our preferred hardware platforms are:

- * 8051 (Infineon, Phillips, Dallas)
- * MB90F3XX/4XX family (Fujitsu)
- * C167/XC161 (Infineon)
- * LPC21XX family (NXP/formerly Phillips)
- * ARM-7 and ARM-9 derivates

We produce your electronic products in ranges from 10 to several 1000 pieces per lot. Our capabilities include all SMT relates processes, including wave-, reflow- and vapor phase soldering.

Membership:

CiA (CAN in Automation) since 1996

FED (Fachverband Elektronik Design) since 1999

LIN Consortium since 2007

Certification:

We apply a quality management, according ISO9001:2000

and we are approved with DQS certificate no. DE-062257 QM

Lipowsky Industrie-Elektronik GmbH

Roemerstr. 57, 64291 Darmstadt

Dipl.-Ing. Andreas Lipowsky

Tel. +49-6151-93591-0

Email: info@lipowsky.de

Web: www.lipowsky.de

[You can find this press release here](#)