



### **Is the Baby-Lin supplied with software?**

All Baby-LIN products come with the LINWorks PC software, the Baby-LIN-DLL, an USB driver and USB-cable. So you get everything you need to start working with the Baby-LIN !

### **Which LIN versions are supported by the Baby-LIN ?**

The Baby-LIN supports all current LIN versions (V.1.2, V.1.3, V.2.0 und V.2.1). It is also possible to use the Baby-LIN with devices, using the LIN related protocol variants Cooling and SAE-J2606.

### **Can I connect multiple Baby-LIN's to one PC?**

If you have to run multiple identical LIN devices at the same time, i need to supply a separate restbus simulation to each device. For this the Baby-LIN DLL and the LINWorks software is designed to support multiple Baby-LIN's connected to one PC.

### **Can the Baby-LIN be operated without PC?**

Many applications need to run continuously 24 hours a day. If you don't want to have your PC powered on for all that time, it's no problem with the Baby-LIN.

The Baby-LIN is designed to run complete independent from the PC.

The PC is only used for configuration and if requested to show and change any signal values.

### **Which operating system can be used with Baby-LIN?**

The Baby-LIN DLL and the LINWorks software run on Windows 2000, Windows XP, Windows Vista and Windows 7 (32 Bit version). There is also a Linux version available.

### **Which components are required on the PC ?**

The Baby-LIN USB driver and the LINWorks software have to be installed. The USB driver installation usually has to executed with administrator privileges.

### **Can I use the Baby-LIN without being a LIN expert ?**

If you have to operate a LIN device (e.g. wiper motor, window lifter etc.), you only need to have access to the LDF (Lin-Description File) for that device.

This LDF can directly be imported by the LINWorks software. So the minimal setup after importing the LDF is to define, which nodes are to be simulated and which nodes are available in real.

Then you are done and can start running the bus, watching or modifying signals on the fly.

It's really that easy !

### **What to do, if I don't have a LDF ?**

If you have a LIN job and there is no LDF available, then the LDF editor can help. The LDF editor is part of the LINWorks software and allows for creation of an LDF file from scratch.

In that case, you need to have comprehensive information about that LIN device, to be able to make all the necessary entries in the LDF-Editor.



Another option is to contact Lipowsky Industrie-Elektronik. During numerous LIN projects, we gathered a lot of information about all kind of ECU's. So there might be a good chance, that we can help.

### **Can I use the Baby-LIN to watch LIN communication ?**

In case you want to retrieve details about the information exchanged on the bus, by monitoring the data transferred, the Baby-LIN can help with specific monitor functions.

- First you connect the Baby-LIN to the LIN bus, where communication is active.
- The Baby LIN automatically detects the bus speed and adapts to that speed,
- Then the Baby-LIN displays all data transferred with identifiers, data bytes, checksum and a time stamp.
- All that data can also be written to a file.

### **I need a commander to operate a sunroof during production. Which Baby-LIN version to be used best ?**

For this application the Baby-LIN-RC with its integrated key pad will be the best choice.

As it can be operated stand alone, is will only be connected to the LIN bus, no PC connection will be necessary!

### **Can the Baby-LIN help me realising an endurance test for a window lifter ?**

Yes, the Baby-LIN can be utilized in such endurance test applications. It can provide all the necessary LIN communications and furthermore it can provide the signal events to realize the intended test sequence.

For example: 1.command close window - 2.wait for 5 seconds - 3.command open window - 4.wait for 5 seconds - repeat the loop with first step.

Such a test can be defined by the Baby-LIN's Macro feature. The Baby-Lin can be configured to automatically start this sequence and run it autonomous without pc connection.

The Baby-LIN-RM provides additional digital i/o signals, which can also be used in such a test sequence.

### **Can I control the LIN bus from within my own pc software?**

The Baby-LIN is delivered with a DLL, which allows to use all functions from your own application (e.g. Visual Basic, C#, C++, LabView, etc.). For example you can read and write signals values in real time.

There are available sample projects for VB, LabView and C# on the LIPOWSKY customer portal.

### **Can I get help, if I get stuck ?**

Definitely yes !

Lipowsky Industrie-Elektronik realized many successful LIN related projects and so we can draw upon many years of experience in this fields. We also provide turn key solutions for specific applications like EOL (End of Line) testers or programming stations.

Lipowsky Industrie-Elektronik GmbH designs, produces and applies the Baby-LIN products, so you can always expect qualified and fast support.

Lipowsky Industrie-Elektronik GmbH is member of the LIN consortium. (<http://www.lin-subbus.de>)