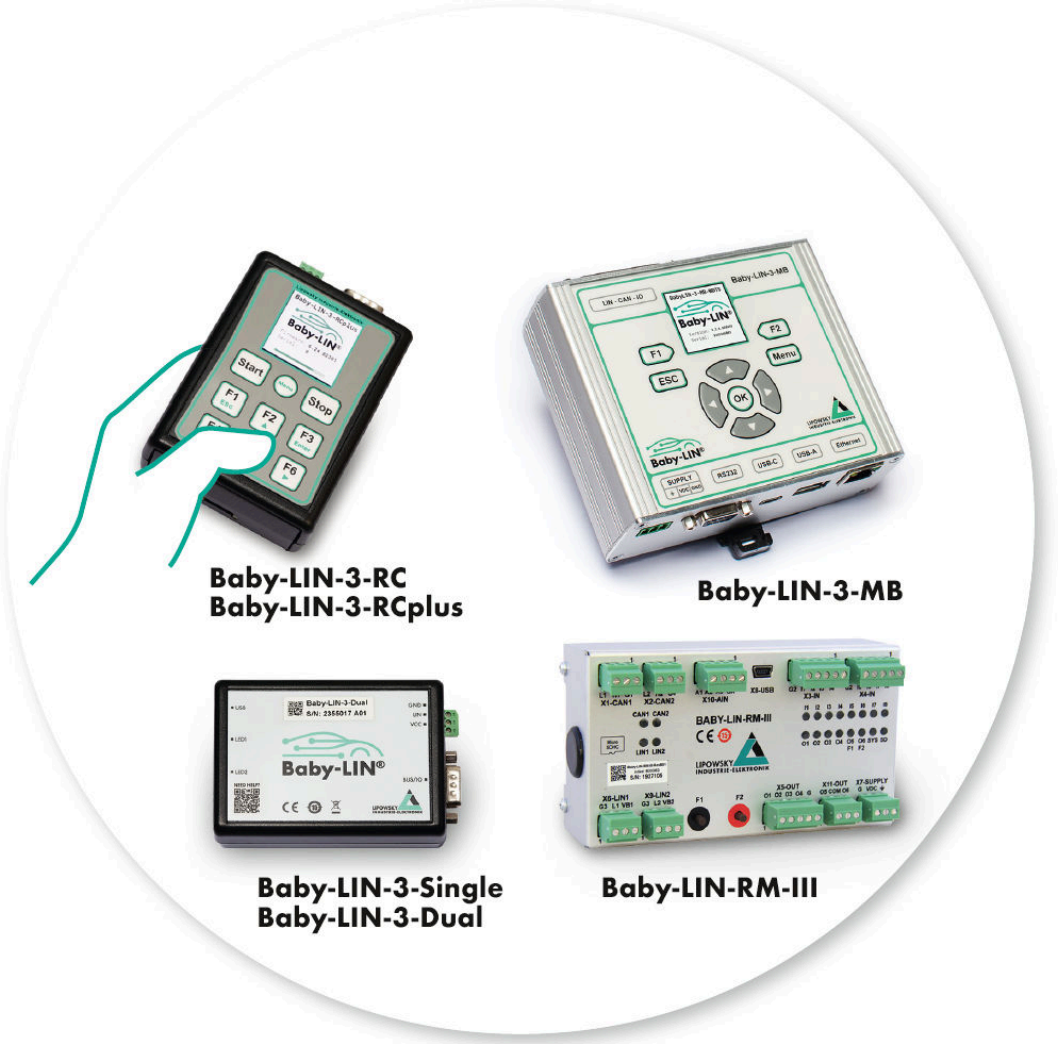
LIPOWSKY
INDUSTRIE-ELEKTRONIK



Access microSD card via MTP

Application_Note V1.0

Lipowsky Industrie-Elektronik GmbH

Römerstraße 57 | 64291 Darmstadt | Germany

Phone: +49 (0) 6151 / 93591 - 0

Website: *www.lipowsky.com* | E-Mail: *info@lipowsky.de*

1 Introduction **2**

2 Necessary firmware **2**

3 Activation/Deactivation **2**

4 File browser **3**

4.1 Selecting SDFs 3

4.2 Show card content 4

5 Format card **5**

6 Support information **7**

1 Introduction

Since the introduction of the new Baby-LIN-3 series the native high-speed USB interface opened the door for new features. One of them is the ability to access the microSD card of the Baby-LIN-3-RCplus directly via a PC using the Media Transfer Protocol (MTP).

With this feature it is now possible to

- Copy SDFs to or from the microSD card
- Read log files while the device is still connected
- Copy log files while the device is actively logging data
- Access the card without removing it

Information
The mircoSD card option has to be activated for this feature to work.

2 Necessary firmware

This feature was introduced with the firmware version 6.28 B0. You can check the firmware version of your device by pressing the `Menu` button and open the `Information` sub menu.

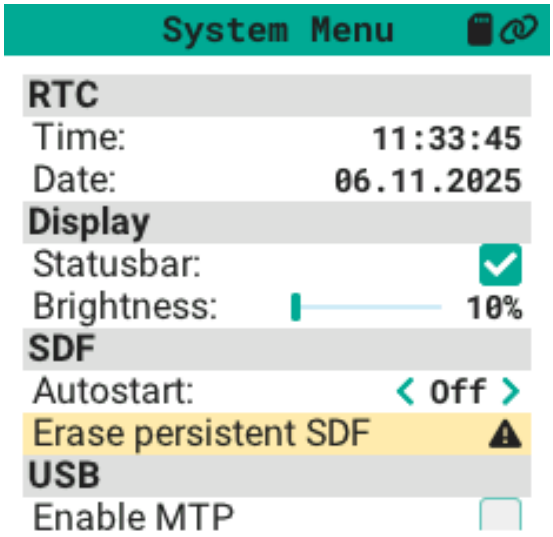
If you firmware version is older please download the latest update package here *https://lipowsky.de/downloads*.

3 Activation/Deactivation

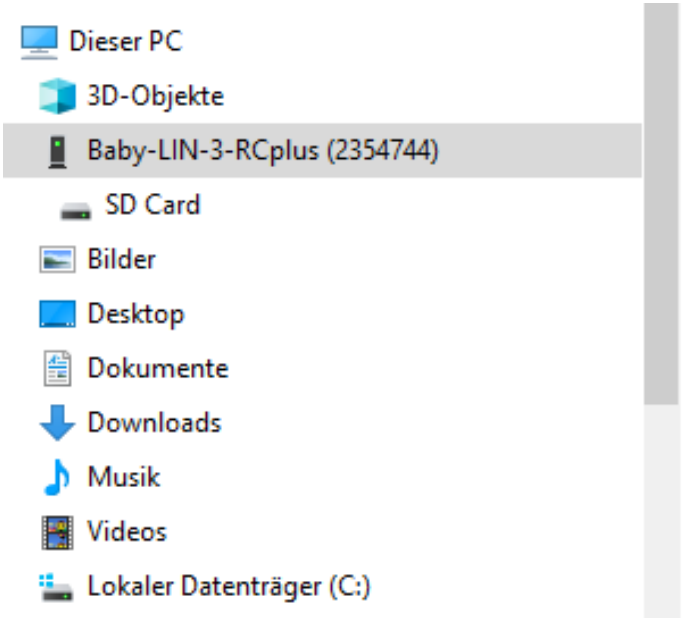
To use this feature it has to be activated on the device. Once set it stays enabled until the user disables it again.

Open the devices menu by clicking on the `Menu` button, navigate to the `Settings` sub-menu and press the `F3/Enter` button.

Navigate down to the section `SD Card` to the option `Enable MTP` and activate it by pressing `F3/Enter`, the checkbox should now be checked and your device will be shown in the Windows device view.



As soon as the feature is enabled you should see it in the Windows Explorer and should get a notification or a new window (depending on your PC settings).



From here it behaves like a normal mass storage device where you can select, copy or delete files and folders.

Version incompatitbility
Due to the Windows MTP implementation it may not possible to open files with a program through the right-click context menus, even if they are listed.

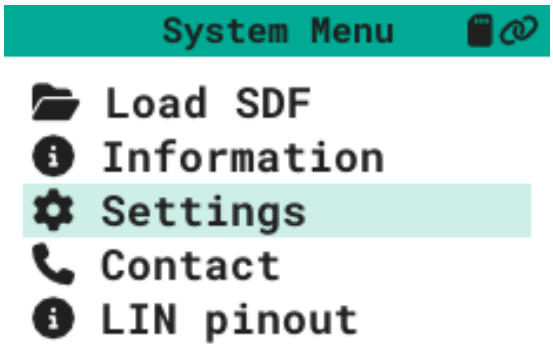
4 File browser

With the MTP feature a new file browser inside the devices GUI was introduced. This menu is independent from the SDF GUI.

4.1 Selecting SDFs

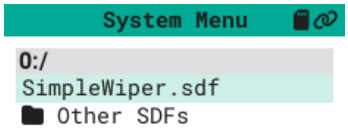
The intended use of this browser is to select and start a SDF on the microSD card.

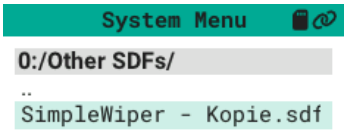
For this open the devices menu by pressing the `Menu` button. If a correctly formatted card was detected a new menu point `Load SDF` will be shown on first position.



Tip
If this menu point is not shown with an inserted microSD card please Format card the card.

Select the `Load SDF` with the up-/down arrow buttons and press `F3/Enter`. Now you are in the root directory of the microSD card and can browse the folders and files. With `F3/Enter` you can open a folder and with `F1/ESC` you can leave it.





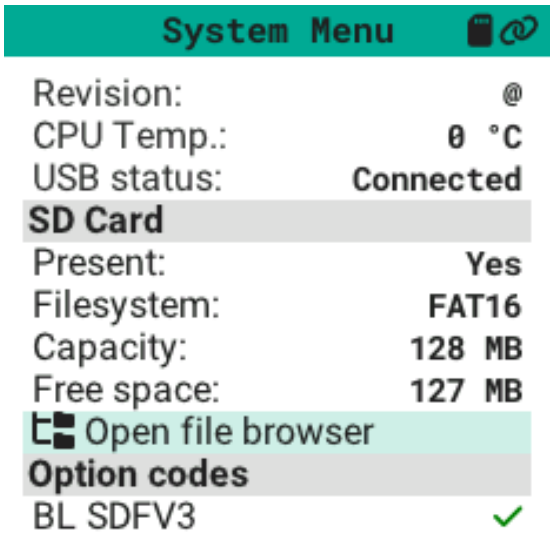
To load an SDF select it with the arrow keys and press `F3/Enter`.

Information
Only files with a `.sdf` ending will be shown.

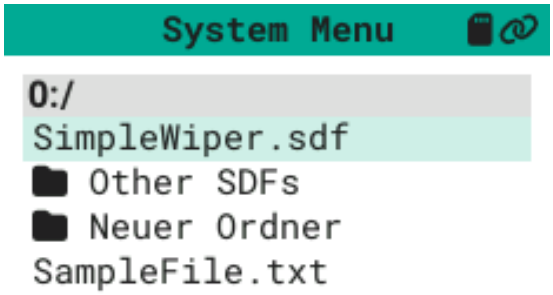
4.2 Show card content

It is also possible to show the whole content of card to check e.g. for log files. For this there is a separate file browser entry inside the information menu.

From the device menu select `Information` and scroll down to the `SD card` section where you can find the `Open file browser` entry which you can open with `F3/Enter`.



This file browser behaves the same like the one mentioned before but now see all files on the card. Be aware that here you can't select any file, only read the names.

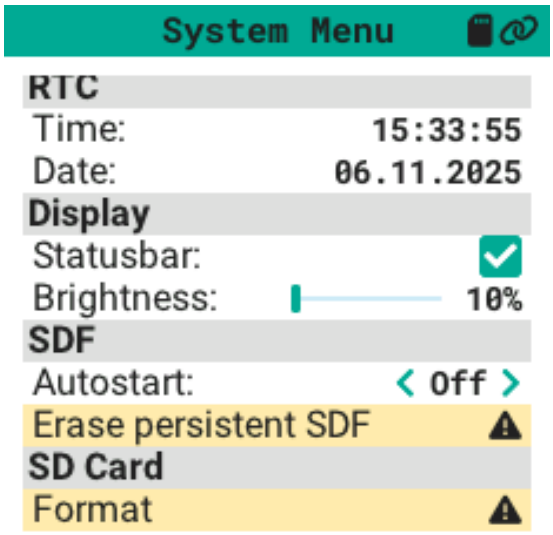


5 Format card

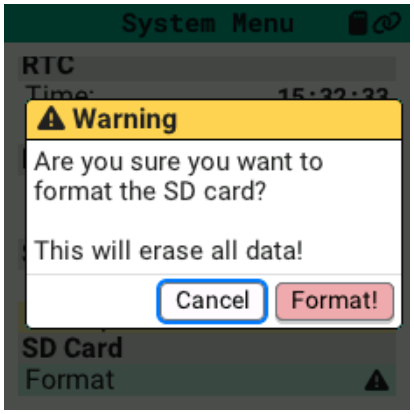
With a new microSD card or one which can't be accessed by the device it should be formatted to be used reliable. You can do this inside the device and don't have to remove the card and plug it into a PC.

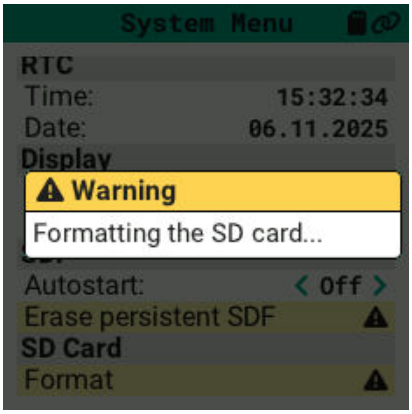
Open the devices menu by clicking on the `Menu` button, navigate to the `Settings` sub-menu and press the `F3/Enter` button.

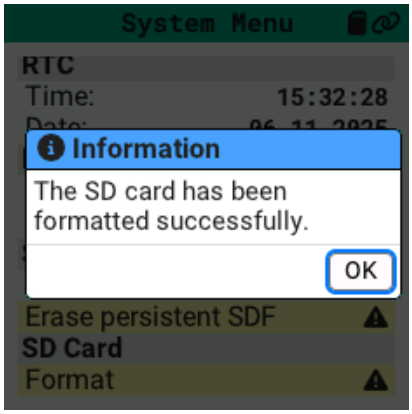
Scroll down to the section `SD Card` to the yellow highlighted option `Format` and press `F3/Enter`.



The pop-up checkbox should now be confirmed with the red-ish button `Format!` and the device will start to process while showing a info box. Once the process is done a new message box will show if it was successful or an error happened.







Confirm this last message box with `F3/Enter` and now the card is ready to use.

6 Support information

In case of any questions you can get technical support by email or phone. We can use TeamViewer to give you direct support and help on your own PC. This way we are able to sort out problems fast and direct. We have sample code and application notes available, which will help you to make your job.

Lipowsky Industrie-Elektronik GmbH realized many successful LIN and CAN related projects and therefor we can draw upon many years of experience in these 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.

Author	Lipowsky Industrie-Elektronik GmbH Römerstraße 57 64291 Darmstadt
Phone	+49 (0) 6151 / 93591 - 0
E-Mail	*info@lipowsky.de*
Website	*www.lipowsky.com*
CEO	Andreas Lipowsky
Commercial register	Darmstadt HRB 5139
VAT-ID	DE 111647423
Quality Management	DIN EN ISO 9001:2015