ASiKS-Engineering

User Manual

LIN-RS232 Module

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This document provides detailed information about ASiKS-Engineering's LIN-RS232 Module.

ASiKS-Engineering
Your Reliable Partner
in System Engineering, Prototyping, Hardware and Software Development
Dr. Andreas Schramm

Pointenweg 3, 94110 Wegscheid, Germany
Tel.: +49(0)8165/4093868
E-Mail: **info@asiks-engineering.com** Web: https://www.asiks-engineering.com

TABLE OF CONTENTS

1 Introduction

The LIN-RS232 Module shown in Figure 1 is used for easily connecting a LIN Bus to the serial Port (RS232) of e.g. a PC.

As it is passive module, no baud rate conversion or LIN Bus specific signal generation is done the module.

Figure 1: LIN-RS232 Module

This interface provides the following features:

- 9-pin D-SUB plug (male) to connect to the LIN Bus
- 9-pin D-SUB plug (female) to connect to the serial port of e.g. a PC
- Dimensions: 63mm x 34mm x 17mm
- Optimised to be used with LIN-EASYSTARTER (LinMon software, downloadable at https://www.asiks-engineering.com/downloads_eng.html)

2 Connectors and pinning description

2.1 LIN connector D-SUB 09 plug (male)

Table 1 shows the pinning, functional description and electrical characteristics of the LIN connector and LIN-RS232 Module.

Pin	Symbol	Description	Min	Typ	Max	Unit
3	GND	Ground	0	0	0	V
4	NSLP*	sleep control input (active low); controls inhibit output; resets wake-up source flag on TXD and wake-up request on RXD	-0.3		+7	V
					-	mA
5	INH*	battery related inhibit output for controlling an external voltage regulator; active HIGH after a wake-up event	-0.3		VBat+0.3	V
			-50		+15	mA
6	VCC	Voltage output	4.9	5	5.1	V
					200	mA
7	LIN**	LIN bus line input/output	-27		+40	V
8	NWAKE*	local wake-up input (active-LOW); negative edge triggered	-1		+40	V
			-15		-	mA
9	VBat	battery supply	5	12	18	V

Table 1: Quick reference data

Note *: This signal lines are optional. Only available if stated at ordered!

Note **: Master configuration (1k PullUp), slave configuration on

2.2 RS232 Connector D-SUB 09 plug (female)

Standard 9-pin D-SUB connector to connect the LIN-RS232 Module to the serial communication port of e.g. a PC using a standard 1:1 straight cable.

The electrical characteristics of the RS232 Standard apply.

3 Disclaimer

For damage of any kind, arising by the employment of the LIN-RS232 Module, no requirements can be made valid opposite the supplier!

4 Contact Information

ASiKS-Engineering
Dr. Andreas Schramm
Pointenweg 3
94110 Wegscheid
Germany
Tel: +49(0)8165/4093868
E-mail: info@asiks-engineering.com
Web Site URL https://www.asiks-engineering.com

Appendix A – Revision History

Revision History
1.0 Initial Release 22nd February, 2006
2.0 User manual rework 15th January 2019