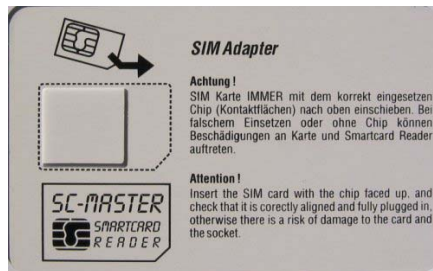


SC-Master Phoenix LCD

the new and active

All-in-One Programmer



GSM/SIM-Adapter inclusive

Made in Germany



SC-Master PHOENIX LCD is an active Smartcard-Programmer having 9 different modes. Control is taken by an ATMEL AVR processor and a reprogrammable XILINX CPLD (Complex Programmable Logic Device). With the help of a PC-software it is possible to change the modes automatically or manually by pressing the push-button.

Features:

- 9 different modes for nearly every kind of chipcard and card program.
- Casing beautifully shaped with brief description of the elements
- Easy to handle via 1 push-bottom
- PC-software control of the modes (SC-Master Program amongst Windows9x/NT/2K/XP)
- Indication of the adjusted mode via a background lighted 2x16 character LCD display
- 2 LED's (light emitting diode) for DATA (green) and RESET (red or orange)
- Reprogrammable Atmel AVR microprocessor, updateable by a PC program via serial access port for future modes!
- Reprogrammable XILINX CPLD (Complex Programmable Logic Device), updateable by a PC program via serial access port for future modes!
- Optimal card protection. Signals will be activated with time deceleration, about 100 ms after the insert of the card and about 60 ms after the change of the modes, and if drawn out or changed, they will be deactivated immediately, respectively. Additional protective resistors are integrated in the signal data lines.

SC-Master Phoenix Manual

Power supply:

SC-Master PHOENIX uses a simple stabilized wall power supply plug 7,5 - 9 Volt, >200 mA. It is protected against pole change. The plus pole of the power supply has to be in the middle of the plug.

RS-232-cable:

A serial 1:1 cable, plug on socket is required (more or less an extension cord of the mouse). Never use a twisted (zero-modem) cable, it will not work. Select a free COM access port at the PC (mostly COM1 or COM2), no other software should access the selected COM Port.

Operation:

After connecting the RS-232 cable and the mains supply the SC-Master PHOENIX is on mode 0. By pressing the push-button the SC-Master PHOENIX will change the operating mode. Please take care when inserting the Smartcard: the contact surface has to be upwards. If the card is inserted and the mode is activated, the point of the decimal 7 – segment indication is on.

The modes:

- 0** Mouse Mode with a clock frequency of 6.00 MHz
- 1** Mouse Mode with a clock frequency of 3,58 MHz
- 2** PICprog (Ludipipo)-Mode.
Please use Smartcards with PIC members ONLY.
Other cards may be damaged by the high tension while programming!
- 3** I2C-EEPROM-Mode. For programming of EEPROMS on 8 poles SMD
WAFER/PIC/Twostone© cards.
- 4** AVR-Programming-Mode. For programming of the Atmel (AVR-Controllers) on Jupiter
1/Twostone© and FUN cards (the EEPROM has to be loaded in the Mouse Mode after
the termination of AVR programming).
- 5** I2C-EEPROM-Mode. For programming of EEPROMS on 8-poles SMD Jupiter cards.
- 6** „Easy-Check“ Emulation (©ELV). On this mode operates the reading program for
chipcards of GSM-, telephone-, health insurance-, or pay cards. You will get the
program among <http://www.teledata-update.de>
- 7** Phoenix Mode with a clock frequency of 6.00 MHz
- 8** Phoenix Modus with a clock frequency of 3,58 MHz

More modes possible via software update!

Note:

From the day of purchasing on, the producer gives guarantee for 24 months on the SC-Master Phoenix.LCD In case of defect please return the Programmer back to the trader, where it has been bought.

Defects at Smartcards or at the PC can not be warranted by producer or trader.

More information and software at <http://www.sc-master.com>