MOTOROLA

EMMI Controller

User Manual

MOTOROLA

INDEX

GENERAL

Emmi Controller is an application set up to read out and modify single radio memory elements, flash radios using files in HEX format and flex phones using files in FLX format.

The software is DOS based, approx. 140kB in size and needs one RS-232 interface.

Further on to the use under DOS Emmi Controller will work fine under Windows95.

Using Windows NT with Emmi Controller is not recommended because it's running unstable.

Emmi Controller is secured and gives limited access to the radio memory. Sensitive registers cannot be read out or modified (no modification of IMEI number, no write access and limited read access to any 1st ME lock registers).

COMMAND LINE OPTIONS

w/o parameters start in flex mode using COM1, data path equal to start up path

P=[x]	use COM port [x]
D=[path]	set path for flash and flex files
F	start up in flash mode
S=[x]	set delay for screensaver (x=1 up to 9, 1-9 minutes)
N	don't display real time clock

MOTOROLA

FLEX MENU

The flexing menu is the default start up screen.
The flex menu will list up all *.FLX files available in the Emmi Controller directory (default) or in the directory selected with the "D" start up parameter.
Radios can be flexed simply by positioning the highlighted bar on the right flex file displayed and pressing ENTER.

In the bottom line function keys are displayed:

F1	Help	currently no help file available
F4	Edit E²	read out and modify radio memory elements
F5	Radio info	display radio data (CP, modem, SC, Error info, SIM lock status, Emmi s/w)
F6	Flash info	Display flash software downloaded and available in Emmi box
F9	Flash mode	Change to flash mode
Esc	Exit	Exit and close down Emmi Controller

Further on F2 and F3 can be used:

F2	Baud rate	Select baud rate (9600, 19200 or 38400 only)
F3	Terminal mode	Enter terminal mode

MOTOROLA

FLASH MENU

Pressing F9 in the flex menu will call the flash menu.

The flash menu will list up all *.HEX files available in the Emmi Controller directory (default) or in the directory selected with the "D" start up parameter.

The flash files can be downloaded into the Emmi box simply by positioning the highlighted bar on the right flash file displayed and pressing ENTER. After downloading the flash file into the Emmi box, connect the phone and start it up. Enter Test mode and type in the flash command (7536778#) to start flashing the phone with the downloaded software.

In the bottom line function keys are displayed:

F1	Help	currently no help file available
F4	Edit E²	read out and modify radio memory elements
F5	Radio info	display radio data (CP, modem, SC, Error info, SIM lock status, Emmi s/w)
F6	Flash info	Display flash software downloaded and available in Emmi box
F8	Flex mode	Change to flex mode
Esc	Exit	Exit and close down Emmi Controller

Further on F2 and F3 can be used:

F2	Baud rate	Select baud rate (9600, 19200 or 38400 only)
F3	Terminal mode	Enter terminal mode

EDIT THE E²

To edit the E² follow below described procedure:

- Press F4, the radio will be powered on (error message if not successful)
- Enter R or S to select element position (Radio or SIM, default=radio)
- Enter 1 or 2 (MAP 1 or MAP 2, default=MAP 1)
- Enter element ID
- Enter record number (default=1)
- Element value will be displayed if not read secured
- Pressing F8 will toggle between decimal and hexadecimal display mode
- Pressing ESC will terminate the function and display the main menu

Optional:
- Edit values
- Press F4 to write modified data to radion if element is not write secured
- Pressing ALT+F4 allows to write to a file (type in flie name and a short description). The new file will be displayed in the main flex menu and can be used to flex other radios. The file contains single element data as well as a complete range of data.

MOTOROLA

COPY THE PHONEBOOK

It's possible to make a copy of the phonebook from a phone and store it as a flex file. The flex file can then be used to flex another phone with the stored phonebbok. To store the phonebook to a flex file, follow below described procedure:

- Connect the phone to the Emmi box and start it up
- Press F4 (Edit E²)
- Enter R (Radio)
- Enter 1 (MAP 1)
- Enter R (Range of elements)
- Enter 75 (Start ID)
- Enter 75 (End ID)
- Type in a file name and press ENTER
- Type in a short description and press ENTER
- Now the phoonbook is stored in a flex file
- When done press any key to return to the main menu. The new flex file will be displayed in the main flex menu and can be used to flex other radios

UPGRADE OF THE EMMI BOX FIRMWARE

The Emmi box may have to be upgraded when a new product is launched. Follow the below described procedure to upgrade the Emmi box firmware:

- Download the new firmware from MSSS and unzip it to the same folder as Emmi controller
- Start up Emmi controller
- Press F9 (Flash mode)
- Choose the new Emmi box firmware by placing the highlighted bar on it and press ENTER
- Now the firmware is downloaded into the Emmi box internal RAM
- When done press any key
- Press F3 (Terminal mode)
- Press ENTER once, a ">" will be displayed
- Type "pe" and press ENTER. Now the Emmi box is being upgraded with the new firmware
- When done the Emmi box shuts off
- Exit Emmi controller
- Restart the Emmi box
- Now the Emmi box is upgraded and is ready to use