

## (A)DNP/1486 Flash BIOS Update

The DIL/NetPC DNP/1486 and ADNP/1486 offers a in-system Flash BIOS update feature. This feature is also a replacement for the BIOS setup menu of standard PCs.

The DIL/NetPC starter kit CD-ROM contains different BIOS configuration files. Table 1 and Table 2 offers a overview. All BIOS files contains a BIOS binary image and a Flash BIOS programmer software within the same single file.

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DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anruf Übertragung ?
Wait for Files. End with CTRL-C!
User break

Program exit.

D:\>dir

Volume in drive D is DL RAM DISK
Directory of D:\

ADNP030C EXE      107,633 01-01-80  12:09a
                  1 file(s)         107,633 bytes
                  4,075,520 bytes free

D:\>adnp030c

***  FLASH-Utility V2.10  ***
*** (c) Software Systems GmbH ***
HW: ADNP1486 , 128 blocks

p ... ADNP/1486-3V V.0.30B
q ... Quit

Your choice :
  
```

**Figure 1:** Running the DIL/NetPC in-system Flash BIOS software

For running the DIL/NetPC in-system Flash BIOS software, it is necessary to booting the DIL/NetPC DNP1486 or ADNP/1486 with ROM-DOS. There is no way for using the Flash BIOS update software with Linux or any other embedded operating systems.

After the ROM-DOS boot, please transfer the DOS file with the BIOS of your choice to the DIL/NetPC DNP1486 or ADNP/1486 DOS drive *D:\* (this is the DIL/NetPC RAM disk within ROM-DOS). Each self-running file contains the new BIOS and the Flash BIOS programmer software. Then run the DOS exe file on your DIL/NetPC. That's all.

The Flash BIOS programmer software ask you for *p* or *q* (see Figure 1 for details). With the *p* key, you start the programming process, *q* terminates the programmer without programming the new BIOS.

The DIL/NetPC in-system Flash BIOS software starts Flash programming

after pressing the *p* key. Programming needs only some seconds. Make sure, that the power is stable for this time. After the next boot, the new BIOS is coming up.

| File         | COM1 | COM2 | COM3 | Boottime | SSD-Support | CF-Support | Bootsequence   |
|--------------|------|------|------|----------|-------------|------------|----------------|
| ADNP030A.EXE | Yes  | No   | No   | Normal   | Yes         | No         | 1. SSD         |
| ADNP030B.EXE | Yes  | Yes  | No   | Normal   | Yes         | No         | 1. SSD         |
| ADNP030C.EXE | Yes  | Yes  | Yes  | Normal   | Yes         | No         | 1. SSD         |
| ADNP030D.EXE | Yes  | No   | No   | Normal   | Yes         | Yes        | 1. SSD / 2. CF |
| ADNP030E.EXE | Yes  | Yes  | No   | Normal   | Yes         | Yes        | 1. SSD / 2. CF |
| ADNP030F.EXE | Yes  | Yes  | Yes  | Normal   | Yes         | Yes        | 1. SSD / 2. CF |
| ADNP030G.EXE | Yes  | No   | No   | Normal   | Yes         | Yes        | 1. CF / 2. SSD |
| ADNP030H.EXE | Yes  | Yes  | No   | Normal   | Yes         | Yes        | 1. CF / 2. SSD |
| ADNP030I.EXE | Yes  | Yes  | Yes  | Normal   | Yes         | Yes        | 1. CF / 2. SSD |
| ADNP030J.EXE | Yes  | No   | No   | Fast     | Yes         | No         | 1. SSD         |
| ADNP030K.EXE | Yes  | Yes  | No   | Fast     | Yes         | No         | 1. SSD         |
| ADNP030L.EXE | Yes  | Yes  | Yes  | Fast     | Yes         | No         | 1. SSD         |
| ADNP030M.EXE | Yes  | No   | No   | Fast     | Yes         | Yes        | 1. SSD / 2. CF |
| ADNP030N.EXE | Yes  | Yes  | No   | Fast     | Yes         | Yes        | 1. SSD / 2. CF |
| ADNP030O.EXE | Yes  | Yes  | Yes  | Fast     | Yes         | Yes        | 1. SSD / 2. CF |
| ADNP030P.EXE | Yes  | No   | No   | Fast     | Yes         | Yes        | 1. CF / 2. SSD |
| ADNP030Q.EXE | Yes  | Yes  | No   | Fast     | Yes         | Yes        | 1. CF / 2. SSD |
| ADNP030R.EXE | Yes  | Yes  | Yes  | Fast     | Yes         | Yes        | 1. CF / 2. SSD |

**Table 1:** BIOS Configuration Files for the DIL/NetPC ADNP/1486 (BIOS-Version 0.30)

| Datei       | COM1 | COM2 | COM3 | Bootzeit | SSD-Support |
|-------------|------|------|------|----------|-------------|
| DNP030A.EXE | Yes  | No   | No   | Normal   | Yes         |
| DNP030B.EXE | Yes  | Yes  | No   | Normal   | Yes         |
| DNP030C.EXE | Yes  | Yes  | Yes  | Normal   | Yes         |
| DNP030D.EXE | Yes  | No   | No   | Fast     | Yes         |
| DNP030E.EXE | Yes  | Yes  | No   | Fast     | Yes         |
| DNP030F.EXE | Yes  | Yes  | Yes  | Fast     | Yes         |

**Table 2:** BIOS Configuration Files for the DIL/NetPC DNP/1486 (BIOS-Version 0.30)

| Serial Port | Baseaddress within 80x86-I/O-Adressraum | Interrupt                              |
|-------------|---|--|
| COM1        | 0x3f8                                   | IRQ4                                   |
| COM2        | 0x2f8                                   | IRQ3                                   |
| COM3        | 0x3e8                                   | IRQ10 for DNP/1486, IRQ12 for DNP/1486 |

**Tabelle 3:** DIL/NetPC Flash BIOS Serial Parameter

## Figures

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Figure 1: Running the DIL/NetPC in-system Flash BIOS software

## Tables

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Table 1: BIOS Configuration Files for the DIL/NetPC ADNP/1486

Table 2: BIOS Configuration Files for the DIL/NetPC DNP/1486

Table 3: DIL/NetPC Flash BIOS Serial Parameter

## Contact to SSV

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## Notes to this document (dnp-flash-update.doc)

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| Revision | Date       |                                | Name |
|----------|------------|--------------------------------|------|
| 1.00     | 09.11.2001 | First version (not certified). | KDW  |
|          |            |                                |      |
|          |            |                                |      |

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