Contents

1 Notes on CP605 under SuSE Linux

1.1 Package overview

```
Name        : bsp-cp605                    Relocations: /opt/linux26_bsp_kom
Version     : kom                              Vendor: Kontron Modular Computers
Release     : 0107                          Build Date: Fri 28 Oct 2005 11:16:17 CEST
Install date: (not installed)               Build Host: przero.rnd.kontron.pl
Group       : Development/Tools             Source RPM: bsp-cp605-kom-0107.src.rpm
Size        : 764105                           License: Kontron Modulars Computers
Signature   : (none)
Packager    : przero
URL         : http://www.kontron.com/
Summary     : Linux BSP for the CP605 family boards
Distribution: Kontron Linux BSPs and drivers
Description :
These is the Linux board support package for the Kontron CP605 board.
It contains drivers and APIs for using the on-board hardware components.
Note: This package is relocatable. To install it to a specific directory,
use the "prefix" command line option.
```

1.2 Pecularities / Restrictions

Was validated for Redhat Fedore Core3 / Core4, Suse 9.2 / 9.3 On other distribution versions no warranty can be taken for functionality of this BSP.

1.3 Version History

1.3.1 Index 0107:

- Corrected HTML documentation
- Adapted to work fine with SuSE Profesional 9.0, SuSE Professional 9.3, Fedora Core 4
- Support for 82541PI GbE-Controller, which is present on the leadfree version of the CP605

1.3.2 Index 0106:

- Adjusted BSP for Kernel 2.6

1.3.3 Index 0105:

- Added new IPMI tool ga_read for reading board Geographical Address handler for OpenIPMI library version 1.3.0. The OEM connection handler library. Included inputs from test report from support regarding release
- Improved documentation
- Corrected changes in the Linux Kernel source code
- Corrected problem with lm81 library regarding sensor reading

1.3.4 Index 0104:

- Added IPMI support files (mainly kernel sources from package).

1.3.5 Index 0103:

- Initial version for the CP605
- In comparison to the CP303/CP304 package:
  - improved online documentation
  - automated shutdown with hotswap switch

1.3.6 Index 0102:

- —

1.3.7 Index 0101:

- —

1.4 Special user hints

1.4.1 Using the SysV Init Script for the Hot Swap Monitor

Before step

```
# /etc/init.d/hsmonitor start
```

you have to set the hsmonitor script executable in /etc/init.d with

```
# chmod +x hsmonitor
```

1.4.2 Hotswap monitor and Hotswap LED support

These tools are defined for the standard CP605 without IPMI. These tools will not work on the IPMI-version of this board. In this case Hotswap-LED and Hotswap-Switch are connected to the IPMI-Controller and can not be accessed from the CP605 processor.

1.4.3 ipmi_demo

The ipmi_demo program will only be compiled, if OpenIpmi is installed on the system. The ipmi_demo supports version 1.3.0 of OpenIPMI, and will not run with newer versions, e.g. the version 1.4.16, which e. g. is provided with SuSE 10.0.

1.4.4 GA demo program ga_read and BIOS-GA dump

The program ga_read shows the geographical address of the CompactPCI-slot. It can only deliver useful information, if the backplane provides this information correctly.

1.5 Suse Linux 10.0

Ensure that the modules i2-core, i2c-dev and i2c-i801 are loaded.

```
# lsmod
```

For loading run modprobe

Example:

```
# modprobe i2c-dev
```

This step requires root privileges.

Now you can run ee_demo with the additional parameter -i for I2C device node selection. If your are not sure which I2C device node is available, run i2cdetect and use the one which is dedicated to the I801 chipset.

Example:

```
ee_demo -r 0 -i /dev/i2c-1
```

Reads from offset 0x0000 and I2C device node /dev/i2c-1.

For the demo-programs lm81_demo and max1617_demo it is required to modify the sourcecode to the according names of the device nodes to get them working