

Fedora 17 / 64 Bit Live system B3C01 for CP6003 and AM4022 family

July 3, 2012

Contents

1	Introduction	1
2	How to install and use the Live system	1
2.1	Live image on a DVD or CD	1
2.2	Create a USB-Stick or SD-Card for Recovery	1
2.3	Boot the recovery Image	1
3	Functional description of the Live Image	1
3.1	Kontron BSP already installed	1
3.2	Identification of the Image	2
3.3	Fedora package management and update	2
3.4	Fedora Kernel updates	2

1 Introduction

This ISO-File contains a Fedora 17 / 64 Bit Live-Image, which already contains the Linux BSP B3C01 for the supported board family.

It is the LXDE-Spin of the Fedora-project (see <http://spins.fedoraproject.org/lxde/>) The LXDE-Spin of Fedora was chosen, because its lightweight user interface fits well to embedded applications. But, of course, it is possible to install any other user interface, for example KDE or Gnome, using the Fedora package management facilities, at a later time.

2 How to install and use the Live system

You have the choice to boot this live syste either from a USB-CD/DVD-Drive attached to the system, or from an appropriately prepared USB-Stick, as described below.

2.1 Live image on a DVD or CD

Download the ISO-Image, and burn a CD or DVD with any available writer program under Linux or Windows. Then, attach a USB-CD/DVD-Drive to Your system, and select it as the boot device from the EFI-Shell.

2.2 Create a USB-Stick or SD-Card for Recovery

As a Linux user, you can alternatively create a USB-Stick from the recovery image.

Please refer to

http://fedoraproject.org/wiki/How_to_create_and_use_Live_USB

for more details

2.3 Boot the recovery Image

3 Functional description of the Live Image

3.1 Kontron BSP already installed

This image has already binaries of the Kontron BSP installed. The drivers fit to the Kernel-version, already, so you can use all the features of the BSP directly from the Live system.

With the Linux command

```
# rpm -qa | grep Kontron
```

you can see, which Kontron packages are installed in which version.

If You choose to install the system on a harddisk, by clicking on the accoring desktop icon, the Kontron BSP will also be available on the harddisk installation.

3.2 Identification of the Image

File `/etc/kontron_issue` shows version and creation date of the image.

3.3 Fedora package management and update

The installed image provides the package management and update facilities of Fedora Linux. You can install all packages from the Fedora repositories, and obtain bugfixes and updates automatically, as usual for the Fedora distribution

3.4 Fedora Kernel updates

Note:

The Kontron BSP contains a driver package with 2 driver modules `komdrv.ko` and `kontronwdt.ko`. These driver modules depend on the particular Kernel version, they were compiled for (as all Kernel driver modules). This means, that, if Fedora updates the Linux Kernel (which can happen quite often), you have 2 choices:

- Either:

You choose the old Kernel in the Grub boot menu (as an intermediate solution)

- Or:

You recompile the Kontron driver against the new Kernel. For that purpose, download the Linux BSP from the Web page, and follow the contained instructions.