



Embedded Linux Software Development Kit

Designed For the Prometheus™ PC/104 CPU from Diamond Systems

2.4 Kernel, CD-ROM with Flash Linux Image, Flashdisk and Hard Disk Options



Rev. 07-02

Get your embedded Linux development project going faster with the new Embedded Linux Development Kit from Diamond Systems.

Our Linux Development Kit offers you a pre-built and ready-to-use “Flash Linux” distribution with a file size of only 10MB and a super-low RAM requirement of only 5.5MB. Flash Linux is designed specifically to run on a solid-state flashdisk on Diamond Systems’ Prometheus™ PC/104 CPU board. It enables you to build a completely solid-state Linux-powered embedded computer that boots in just 15 seconds. It includes the Minix file system and Lilo bootloader.

Diamond Systems’ Linux development kit will save you hours of time by giving you ready-to-run solutions for a development environment and a compact embedded OS running on a flashdisk module. We’ve done all the installation, downloading of latest updates, configuration, and integration to make Linux run reliably on our Prometheus CPU with a minimal footprint.

Flash Linux is based on the version 2.4 Linux kernel. It incorporates several improvements and features that make it ideal for use with our Prometheus CPU:

Console Redirection lets you communicate with the CPU over a serial port (ASCII display mode only). All keyboard and display data is transmitted over the serial port, saving the cost of a video board and giving you maximum flexibility in communicating with the CPU. You can connect any computer running a terminal emulator program such as Hyperterminal to the Prometheus via a null modem cable and control the system as though you had an actual keyboard and monitor.

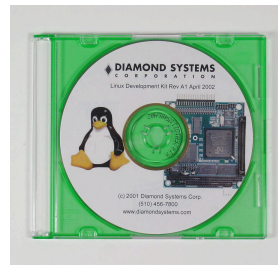
Ethernet Autodetect lets Flash Linux detect and configure the Ethernet circuit on Prometheus automatically, so you don’t have to install or configure an Ethernet driver.

Improved USB Support allows you freedom to connect more USB devices, such as cameras and printers, in addition to mice and keyboards.

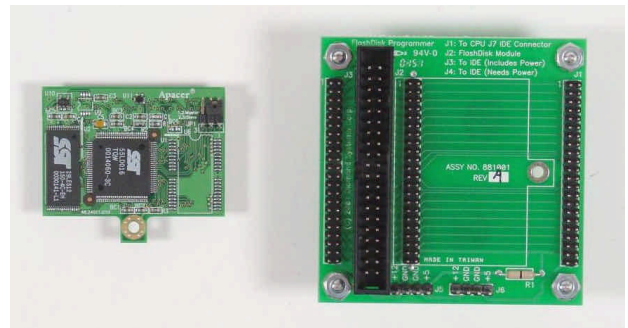
Universal Driver Software is pre-installed, so you can control the data acquisition circuitry on Prometheus.

The Linux Development kit is available in several versions:

- ◆ A **CD-ROM** with our Flash Linux files and instructions for installation and duplication. Select this version if you already have a flashdisk module and a Prometheus CPU, and you just want to add Flash Linux to your system.
- ◆ A **32MB or 128MB IDE Flashdisk Module** (models FD-32 and FD-128) that mounts directly onto the Prometheus CPU with Flash Linux pre-installed and ready to boot. Select this version if you are purchasing a flashdisk for the first time. This kit includes the Flash Linux CD-ROM and an accessory board for using both a flashdisk and an IDE drive with Prometheus simultaneously. 40-pin and 44-pin IDE cables are also included.
- ◆ A **10GB 2.5” Hard Drive** with a full desktop Linux distribution and the Flash Linux files. The Linux installation includes all the latest Linux updates, saving you hours of downloading and installation time. Use this kit to quickly create a full-featured Linux development system with the Prometheus CPU. Just connect it to Prometheus and boot up. This kit includes the Flash Linux CD-ROM and an accessory board to mount the hard drive directly onto the PC/104 stack.
- ◆ A **Combination Kit** that includes all the above items.



DK-LINUX-CD CD-ROM with Flash Linux distribution. Also ships with all kits below.



DK-LINUX-FD32, DK-LINUX-FD128 32MB / 128MB Flashdisk module (left) with Flash Linux pre-installed; includes IDE accessory board (right) and cable.



DK-LINUX-HD10 10GB hard drive (left) with full Linux pre-installed; includes hard drive mounting board (right) and cable.



DK-LINUX-COM Combination kit, includes all items shown above.