

## Blackfin Realtime LINUX BSP for BF527 Arrow EPC

### Evaluation Edition

The Evaluation Edition of the emlix Board Support Package (BSP) for the BF527 EPC makes a fast evaluation of the Blackfin CPU with Linux as an operating system possible. As an additional feature the BSP includes a complete Linux system with a preconfigured eclipse IDE on the basis of VMWare to make sure that a simple evaluation of the BSP can also be carried out using Windows-based computers. The BSP is realtime enabled with Xenomai. Realtime tasks can be executed controlled by the ADEOS Microkernel while preserving the Linux environment.

Please find an overview of the included features in the chart overleaf.

In addition to the Evaluation Edition emlix offers further services for the Arrow BF527 under Linux. These are for example:

### (On-Site) Support

In the course of product development, the need often arises for quick and straightforward support. For this purpose, we offer you our support services in terms of on-site support.

### Customized BSP for Blackfin

Do you need a BSP which is optimized for your specific hardware or your application? We would be pleased to support you with the adaptation of our standard editions to the requirements of your product. All our BSPs are put together using e2 factory, the emlix Build-System for embedded systems.

Customer-specific modifications can thus be realized economically. For these customized editions a production-optimized solution can be achieved through additional drivers, software packages, network services and patches for special applications, and also through targeted trimming. Furthermore we would like to support you with your application development.



### Blackfin Embedded Linux Seminare

The two-day developer seminar “Embedded Linux for Blackfin” is an introduction with practical examples which will give you a good basis for your own projects. The seminar is offered in Göttingen, Berlin and Nuremberg, as well as Europe-wide as in-house training. The target participants are developers with little or no previous knowledge of Unix/Linux. emlix also offers individual training to get an in-depth introduction to the technology.

### System Requirements

BF527 Arrow EPC

### Availability

Evaluation Edition:  
Delivery through Arrow, Dreieich  
together with the board  
<http://www.arrowce.com>

Further Services:  
Please contact us!

Phone: +49(0)551/30664-0, [info@emlix.com](mailto:info@emlix.com)

## Overview of the Editions of the Embedded Linux BSP for BF527 Arrow EPC

Features	emlix Solution
Linux Kernel	Version 2.6.26.2
Toolchain	gcc 4.1.2
Bootloader	uboot 1.16
Protocols	Ethernet, USB Host
Cross Development and Debug Tools	eclipse IDE
Application Development Framework	e2 elements
Secure remote login	dropbear ssh server
Mass storage device	SD/MMC
Common UNIX Utilities	busybox (Version 1.10.2)
Scripting languages	lua
Sound support	mp3play/audioplayer (mp3/wave)
Sound support	audio stereo (CD-quality)
Realtime extension	Xenomai
Webserver	boa webserver
Lightweight Window System	nano-x 0.91
Harddisk Image for the Virtualization of a Linux Host System	VWware image
Update demo application	■
Documentation	■