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Source URL: https://www.emacinc.com/linux-dev

Banner:

System on Module

EMAC provides a Free Eclipse IDE that is pre-integrated to provide everything the user needs for developing applications. All the compiling, converting, and downloading inherent to development can be done from one easy to use high level interface. The distribution provides an SDK which contains source examples for the LCD with Touchscreen, Digital I/O ports, SPI, SD/MMC, and Audio.

The EMAC Eclipse IDE is a powerful, yet flexible Integrated Development Environment and even features SVN version control support. For a screen shot of EMAC's Linux Eclipse based Development Environment click here.

EMAC products can use EMAC's standard Linux Modules including the Xenomai Real Time, Php, SQLite and Lighttpd web server modules. For a listing of optional modules see our Embedded Linux Operating Systems Page.

Xenomai is a real-time development framework cooperating with the Linux kernel, in order to provide a pervasive, interface-agnostic, hard real-time support to user-space applications, seamlessly integrated into the GNU/Linux environment.

EMAC will be incorporating Xenomai into it's mainstream distribution in the near future to create accurate periodic user space tasks with sub-ms periods. Linux users are provided with several examples of an easy to use interface, which communicates with the boards I/O through generalized hardware classes.

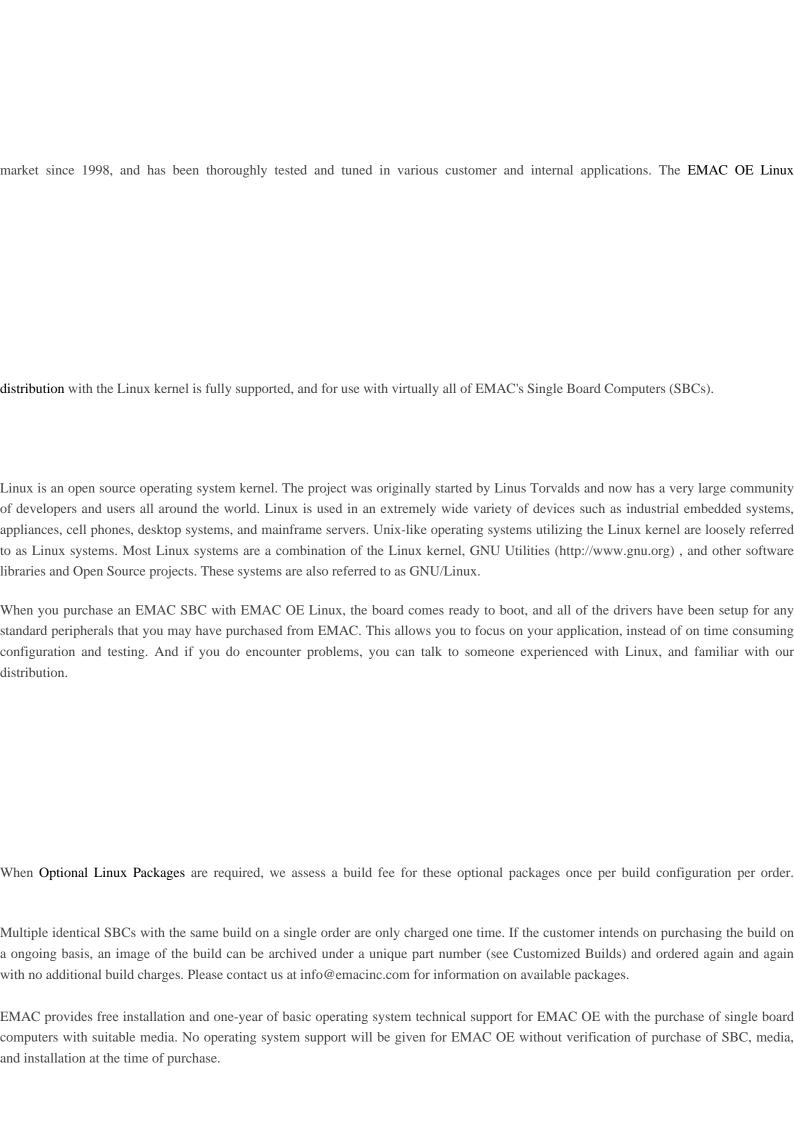
For more info on Xenomai go to:

http://www.xenomai.org/index.php/Main\_Page.

EMAC OE Linux

Software and Tools

At EMAC, we use Linux for off-the-shelf products, custom applications, and major projects. EMAC has been offering our Linux



If you are new to Linux or just want to hit the ground running EMAC can provide you with a Linux Development Computer (LDC). This

high performance, small footprint, desktop PC is loaded with Linux, the IDE/SDK and distribution sources so you can start developing right out of the box.

## Standard Operating System Builds

EMAC provides free of charge Standard Operating System Builds for our many of our products. However, there are times when a customer may need functionality that is not provided or changes to the Standard Build. In these cases the customer can add Packages for a One-Time Fee to the Standard Build in order to create a product specific Custom Build. EMAC has many Standard Packages available. If a Standard Package is not available EMAC can provide Custom Packages and Build Changes as well.

The One-Time Standard Package Fee includes the following:

- The Creation of the Custom Build with the specified Standard Package(s)
- Tech Support for the Package(s)
- o First Year Build Archive Fee

EMAC Standard Builds are dynamic and change over time. Many customers want to make sure that they can purchase the same build over an and over again without the risk of the Build being Revised. EMAC provides an Archiving Service that allows for this. EMAC can archive a Standard build for a Build Archive Fee of \$50 per year. This Archive Provids the same features listed in The Build Archive Service for a Custom build

## Customized Builds

EMAC can configure all manner of custom Linux software packages. We are constantly adding additional support for new and different devices, including custom hardware. Our Linux packages are tested and pre-configured to provide functionality and utilities, quickly and easily. If you require any additional software packages, custom kernel or application development support, contact sales for a quote.

As we update our Linux builds and packages, there may be compatibility issues with older projects and newer kernel drivers or module versions. In order to provide for the most complete compatibility between equipment and software, we offer a Custom Build Subscription Service.

Once a custom software build has been created for you, EMAC can archive this custom build for a Build Archive Fee of \$50 per year.

## The Build Archive Service

The Build Archive service includes the following:

- Unique Custom Part# for the Build (allows easy reordering of the Same Build)
- Build is archived on our server allowing the customer to purchase the same build for the life of the product
- Customer FTP Account for Customer Access to their Build(s) {login information is provided upon request}

## **EMAC Custom Solutions**

Besides Single Board Computers, EMAC can provide custom Linux solutions with: Custom Linux Kernel development Real-Time Linux Extensions Data Acquisition Modules Custom Application Programming Custom Hardware Modification and Design From small device drivers to fully custom turnkey systems, EMAC is your Linux SBC Partner. Let us help you get your application/project off the ground! EMAC products can use EMAC's standard Linux Modules including the Xenomai Real Time, Php, SQLite and Lighttpd web server modules. Standard linux builds are aviliable for all products EMAC sells. Custom Linux builds, Customized Linux builds, and specialized drivers are also available upon request. PC Compatible-Single Board Computers Image not found Our Linux installation is a second-generation embedded distribution, and has been thoroughly tested and tuned in file:///var/www/html/emacinc-con various customer and internal applications. Linux is fully supported on virtually all of our PC-SBCs. mage noviound Microsoft® Windows CE is compact, providing high performance in limited memory configurations, supporting a file:///yar/www/html/emacinc-com/sites/default/files/images/win\_ce.gif range of embedded, mobile or multimedia product lines. XP Embedded is a version of the Microsoft® Windows XP operating system specifically designed to address the com/sites/default/files/images/Xpe logo.jpg mage not found ile:///var/www/html/ema needs of dedicated and embedded systems OEMs. DOS continues to be designed into many applications. It is well known to programmers, and it's small, fast, Image not found reliable, and inexpensive. Regardless of whether you have a new design or an existing design, EMAC offers both MS-DOS and ROM DOS versions.

MicroPac Single Board Computers

MicroPac 180

E311-21 ... \*MT-BASIC EPROM and Manual call
E311-11 ... \*E-FORTH EPROM and Manual call
E030-13 ... DK85 8085 DDS Micro-C Developer Kitcall
E030-07 ... ANSI Cross C Compiler & Assembler call
E030-06 ... Z180 Assembler and Linker call
E030-31 ... Z180 In-Circuit Emulator and Debugger call

MicroPac 515C

\* (Requires E311-09 Upgrade)

E515-07 ... BASIC 52 Interpreter call E030-10 ... DK51 8051 DDS Micro-C Developer Kitcall E030-01 ... ANSI C Compiler (IDE) for 8051/80535 call MicroPac 535

call

E331-07 ... BASIC 52 Interpreter

E341-07 BASIC 11 Interpreter		call
E030-11 DK11 68HC11 DDS Micro-C Dev	eloper Kit	call
E030-08 ANSI C Compiler for 68HC11		call
MicroPac HC16		
Assemply Language Option (DOS Based)		
E400-02 CASM16 assembler call		
E400-01 ICD16 debugging softwarecall		
E400-00 Back door debug cable call		
Low End C Language Option (DOS Based)		
E030-12 DK16 68HC16 DDS Micro-C Dev	eloper Kit	call
E400-01 ICD16 debugging software		call
E400-00 Back door debug cable		call
High End C Language Options (Windows Bas	ed)	
E030-09 Cosmic C, Compiler and debugger	call	
E400-00 Back door debug cable	call	
MicroPac Common Tools		
E020-08 EPROM Programmer Board	call	
E020-09 32 Line Parallel I/O board	call	
E010-06 10-pin to DB9 RS232 Adapter Cab	olecall	
E010-08 RS-232 6-ft. Cable	call	
(needs finishing)	Cuii	

E030-10 ... DK51 8051 DDS Micro-C Developer Kitcall E030-01 ... ANSI C Compiler (IDE) for 8051/80535 call

MicroPac HC11

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