



NetModule Linux Platform

OpenWRT based

Key Features

- Everything available in source code
- Menu based configuration
- Graphical Debugger based on Eclipse and Abatron BDI
- Support for Windows PC based development
- U-Boot boot loader
- Latest Linux Kernels (including 2.6.30)
- Many drivers included
- NAND Flash support
- Integrated in Subversion Source-Control

Typical Applications

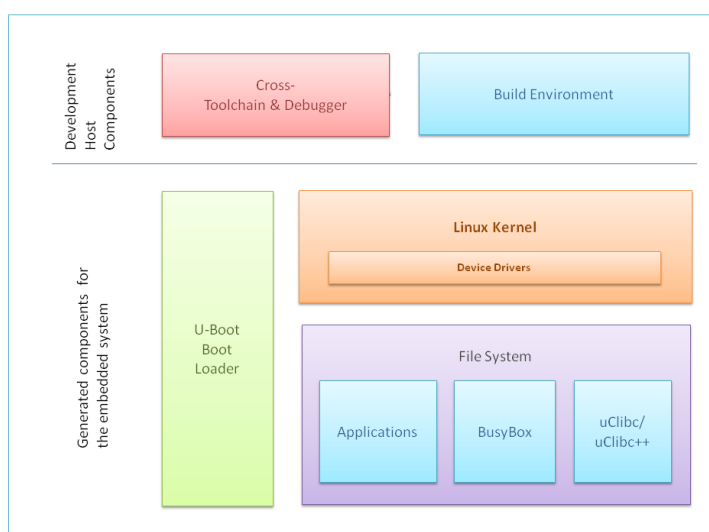
- IP Routers/Gateways
- Industrial Controllers
- VoIP Devices
- Wireless Devices
- Firewall, VPN Appliances
- Network Attached Storage (NAS) Devices
- Home Servers

NetModule Linux Platform

The NetModule Linux Platform is based on OpenWRT. It provides a complete build environment to generate bootable target images. This includes boot loader, kernel, target file system and cross toolchain.

A huge selection of open source Linux applications and libraries can be easily integrated into the target file system by simply selecting them in the menu based configuration.

All components – including the tool chain - are built completely from source code. This gives you full control over all aspects of your system and ensures vendor independence.



The NetModule Linux Platform supports a wide variety of hardware including ARM, MIPS, PowerPC and Intel architectures.

The build environment is based on the open source OpenWRT project which is available under the GPL V2 license. Any software included in the generated binary images is available under GPL and other open source licenses.

NetModule can provide a wide variety of middleware to speed-up the development of embedded applications. The main components are: a framework for fail-safe software update, a configuration framework, a system state framework and an inter-process communication library.

Features	
General	<p>Provides a complete build environment for embedded Linux software development</p> <p>Everything including the cross tool chain and debugger is built completely from source code</p> <p>Generates all required binary images for the embedded target system including boot loader, Linux kernel and target file system</p>
Development Environment	<p>Debug workflow using Eclipse and Abatron JTAG Debuggers supported</p>
Boot Loader	<p>Full source code of a customized U-Boot based boot loader for NetModule CPU modules</p> <p>Possibility to integrate any boot loader</p>
Linux Kernel	<p>Fully customized Linux Kernel based on Kernel Version 2.6.30 for NetModule CPU modules</p> <p>Other Linux kernels can also be used</p>
Drivers	<p>Complete driver set for the NetModule CPU Modules. This includes drivers for the following components:</p> <ul style="list-style-type: none"> Ethernet & WLAN UART USB Bus & Devices PCI Bus & Devices PCI Express Bus & Devices
Flash	<p>Drivers for NOR and NAND flash types are included</p> <p>NetModule CPU Modules support booting from NAND flash</p>
File System	<p>By default, a complete file system for the target system is generated. Part of the file system are:</p> <ul style="list-style-type: none"> uClibc C-Library BusyBox (contains common Unix tools like ls, cp, top, and many others) Telnet server Dropbear SSH server Web server <p>Most file system formats including JFFS2, YAFFS2, SQUASHFS, CRAMFS are supported</p>
Middleware Components	<p>The following middleware components are available from NetModule:</p> <ul style="list-style-type: none"> Framework for fail-safe software update Configuration framework System state framework Inter-process communication library

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