Product Datasheet

Enea Linux: Supported Linux for Demanding Embedded Systems

Enea Linux is a commercially maintained and supported Linux distribution that accelerates time-to-market and reduce risks throughout the entire product lifecycle. It is Yocto-compatible and open source.

Features and Benefits

Support and Customer Focus

- Customer-tailored, optimized Linux kernel configurations and distributions
- BSP layers for customers' hardware
- Cyclic tests and benchmarks on hosted customers' hardware
- Source code upstreamed on request when beneficial for the customer
- Trainings approved by the Linux Foundation
- Enea Linux is supported throughout the entire product lifecycle

License Compliance and IPR

- License analysis
- Compliance program
- License compliance training

Verification

- Thorough testing with daily automated tests and continuous benchmark tests
- Packages, toolchains, tools, drivers, standards, and performance verified on various hosts and reference boards
- ptest framework invented by Enea

Hardware Support

- ARM®, ARM® Cortex®
- Power Architecture™
- Intel®

Development Tools

- Eclipse tools and command-line tools from open source tools only (Yocto ADT)
- Tools for the entire development chain
- Customized image creation
- Application testing (QEMU), debugging, tracing and profiling
- Kernel debugging (KGDB)

Community Based

- Enea Linux is open source
- SECURED
- Early awareness via OSS Security Group Security patches provided

Enea Linux is a Yocto-compatible Linux distribution for a number of architectures. It offloads you from challenges that you would face if building and maintaining a Linux distribution yourself. Enea Linux enables high throughput, low latency, networking, virtualization, and provides open-source development tools exclusively.

Supported

A known weakness of the open source model is the lack of defined support and customer-specific adaptations. Enea provides customer-tailored Linux kernel configurations and BSPs, and has service capabilities for unique customer requirements on embedded Linux. Enea also provides prompt help with world-class support, and best-in-class trainings certified by the Linux Foundation.

Protects IPR

Usage of Free and Open Source software forces companies to deal with complicated license obligations that could jeopardize their Intellectual Property Rights. Enea secures IPR by a licensing analysis and compliance program for customers' software, ensuring compliance between all involved licenses and that proprietary context resides outside kernel space.

Development Tools

The Enea Linux tools suite consists solely of open source development tools covering all phases of the development process - from building Linux images to application development, including tracing, profiling, and debugging. Enea supports and verifies all tools in their host and target environment, which ensures functionality with your Linux build host system and target hardware.

Community Based

Enea Linux is based on the Yocto Project which is the de-facto standard for embedded Linux. Enea is a significant contributor to many software communities, which is the key to provide the best software quality and productivity. Enea is the only independent software vendor (ISV) involved in both Yocto and Linaro. Enea is kernel maintainer and one of the OpenDataPlane (ODP) drivers in the Linaro Networking Group (LNG).

Secured

Security Vulnerabilities are handled by Enea Security Response Team, which works together with OSS-Security. Enea's Security Incident Management process ensures rapid action and confidential handling of security risks. Enea continuously monitors and selects existing security vulnerabilities that are relevant to our customers and:

- Makes them available to customers
- Merges them to the Yocto Project

Hardware Agnostic

Enea Linux runs on ARM, Intel and Power architectures, and is readily available for a wide variety of reference boards from known manufacturers. Enea's position as ISV, its expertise in BSP development, and four decades of

partnership with major semiconductor companies makes Enea Linux a reliable and flexible choice for any hardware.

Communication Centric Features

Combining high throughput with low latency is crucial for networking in high-performing communication platforms. Enea Linux supports key functionalities in these areas, and Enea is active in LNG to improve Linux for real-time, networking, and virtualization.

Verified

Enea Linux is a thoroughly verified Linux distribution. The testing covers standards, package functionality, development tools, device drivers, benchmarks, and IP performance. Enea's test framework can host customers' hardware, which is the key to provide best-in-class verification support.

Real-time

Enea Linux can be configured for real-time applications with native preemption models, preemption patches including the PREEMPT_RT patch and NO_HZ tickles execution, as well as using core isolation for dedicated tasks.

Use-case Driven Profiles

Enea Linux profiles are purpose-built distributions based on Enea Linux.

Carrier Grade Profile

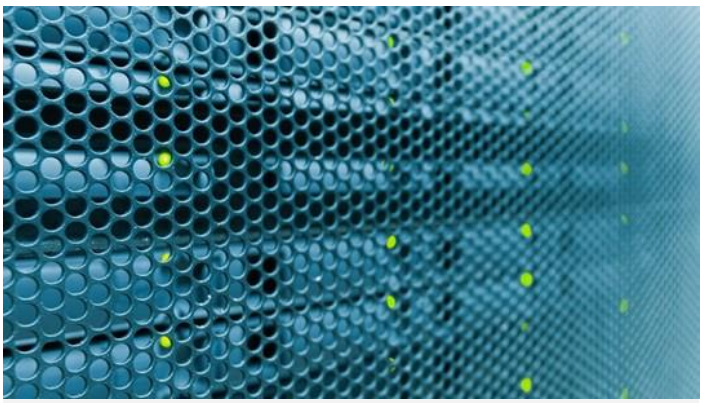
The Carrier Grade profile provide a robust and secure platform for Carrier Grade platforms and applications.

Standard Profile

The Standard profile provides a base configuration for building deterministic embedded platforms and applications.

Networking Profile

The Networking profile provides a physical networking configuration with data plane acceleration and optimized for balanced throughput and latency.



Virtualization Profile

The Virtualization profile provides a feature complete configuration for building network virtualization platforms, enabling high networking throughput for virtualized network functions.

Find out more on the Enea website!

ENEA

Enea develops the software foundation for the connected society with a special emphasis on reducing cost and complexity at the network edge. We supply open-source based NFVI software platforms, embedded DPI software, Linux and Real-Time Operating Systems, and professional services. Solution vendors, Systems Integrators, and Service Providers use Enea to create new networking products and services faster, better and at a lower cost. More than 3 billion people around the globe already rely on Enea technologies in their daily lives. For more information: www.enea.com