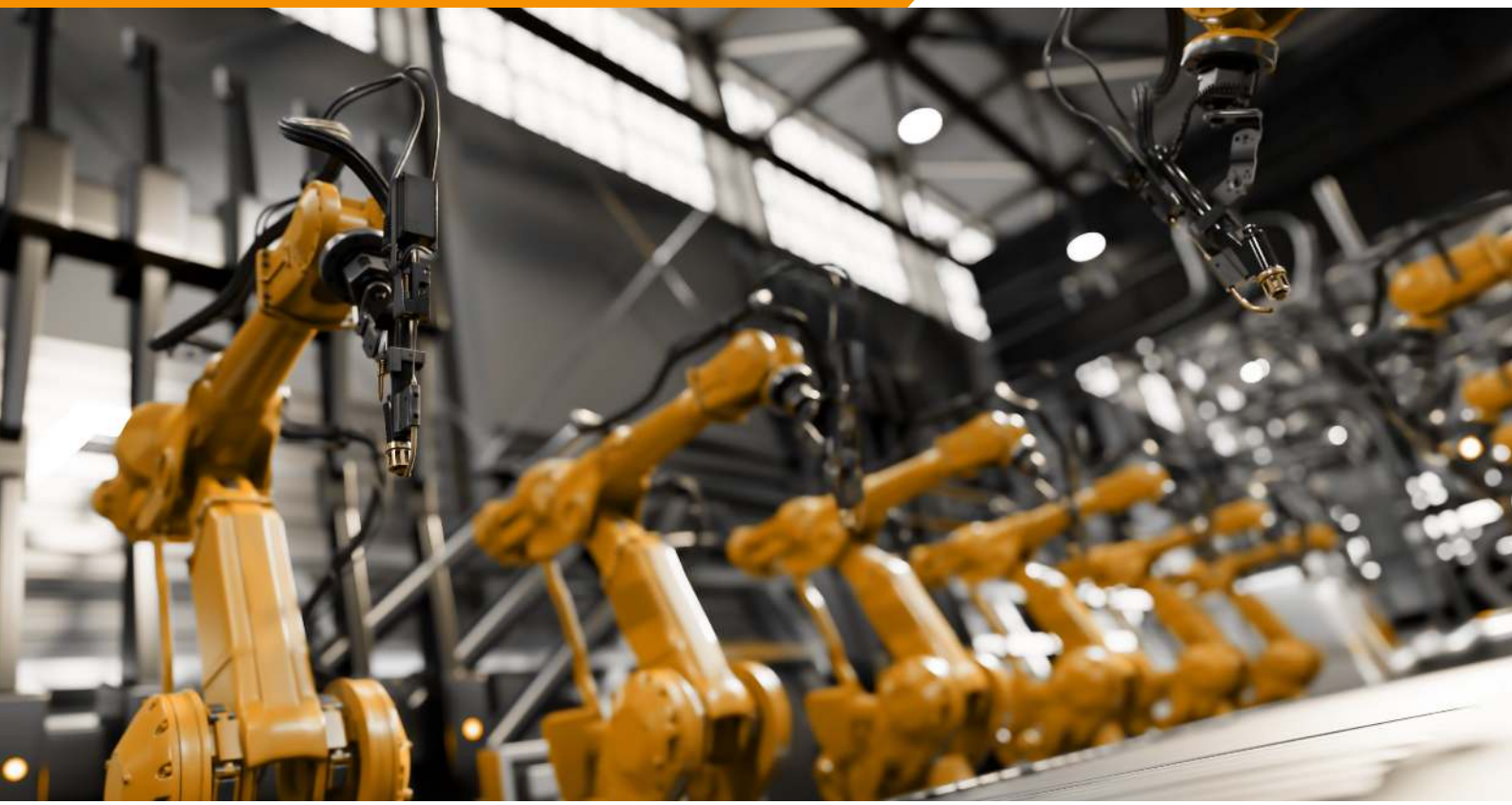


Linutronix – Linux for Industry

Linutronix GmbH is a leading provider of industrial Linux solutions. We deliver specialized Linux consulting to help organizations build, secure, and maintain reliable embedded systems.
From board support packages and development environments, to our long term maintained Industrial Grade Linux Operating System (IGLOS), to expert consulting, we provide flexible, end-to-end support from a single source — covering every phase of the project lifecycle. As active Linux contributors, we maintain the x86 architecture and develop critical kernel components. Linutronix is also the creator of Preempt-RT, the de facto standard for Real-Time Linux, and drove its integration into the mainline kernel.
Linutronix ensures the highest quality and security standards: Our work is proven, tested and trusted in various demanding environments.

Linutronix at a Glance:

- **Founded:** 2006
- **Experience:** 20+ years in Linux consulting and embedded systems
- **Projects:** Over 300 industrial projects successfully delivered worldwide
- **Customers:** Trusted by clients across industry, transportation, power systems, medical, and more
- **Upstream Impact:** 7,000+ patches contributed to the Linux kernel
- **Team:** 30+ dedicated experts across Germany and Austria

LINUTRONIX

Industrial Grade Linux (IGLOS)

Debian-based embedded Linux distribution designed for the industry and full CRA compliance.

- Security hardening, virtualization, over-the-air updates, secure boot
- Long term support and lifecycle management
- OT/IT convergence (e.g., TSN/OPC UA)
- Certified compliance to IEC 62443
- Operating system is rebuildable and defined as XML

Real-Time Linux

Real-time capabilities for the Linux kernel

- Linutronix is the driver of Preempt-RT
- We support customers with all kinds of embedded Linux services
- With real-time capable hypervisors like Jailhouse we enable mixed-criticality systems

Linux Kernel Development

Deep expertise in Linux kernel development. We can support you in every aspect of kernel work:

- Device driver development and maintenance
- Mainlining your code
- Kernel debugging and performance tuning
- In-depth analysis and refactoring

Embedded Linux BSPs

Linux BSP (Board Support Package) and driver development for custom hardware

- Kickstart the development of your embedded system
- Experience in BSPs for ARM, x86, MIPS, Power-PC, RISC-V and many more

Embedded Linux Build Environment

Custom Linux images for your project:

- Simplify the build flow: all tools, compilers and libraries are available on the host
- Fully customized images for your target hardware
- Supports multiple architectures and board-specific configurations

Industrial Ecosystem

Communication for industrial automation systems.

- OPC UA (FX)
- Time Sensitive Networks (TSN)
- Deterministic Networking (DetNet)

Continuous Security Testing

Deep experience in security and in addressing vulnerabilities such as Meltdown/Spectre

- Integration of your hardware in our test infrastructure
- Test definitions, requirements and implementation
- Regular SBOM generation
- Continuous CVE scanning, assessment and reporting
- Automatic testing of security updates
- Alignment with CRA

And more!

We can support you also in other areas such as:

- Tracing and performance profiling of your system
- Consulting and tailored development for embedded systems across industries
- Yocto project and Debian support
- Training workshops on Real-Time Linux, Yocto, security, and embedded development

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Would you like to learn more about our products and solutions?
Simply contact us via phone or email.