



MICROEJ®

SOFTWARE-DEFINED
EVERYTHING



VEE Wear®

EMPOWERING THE FUTURE OF LOW POWER WATCHES

Efficiently Create and Launch Feature-Rich, Stylish Smartwatches with VEE Wear®

VEE Wear stands out as a groundbreaking wearable OS tailored for the future of wearables. With a memory footprint optimized for low-power microcontrollers and microprocessors, VEE Wear brings the features and capabilities of large operating systems to a downscaled footprint, reducing cost and power consumption.

KEY BENEFITS

COMPATIBLE WITH ANDROID DEVELOPMENT TOOLS

Compatible with Android Development Tools, it utilizes tools such as Android Studio and the Gradle Build System to expedite the creation of vibrant user experiences and apps for feature-rich smartwatches based on standard APIs.

SMARTPHONE-LIKE CAPABILITIES ON AFFORDABLE SMARTWATCHES

Combine cost-efficiency and sophisticated application logic and user experiences: cutting-edge user interface with advanced graphics, superior connectivity, smart sensing, and compelling features.

ULTRA LONG BATTERY LIFE

Achieve high performance and ultra-low power consumption, or extend the battery life of Android watches by utilizing a big-little architecture, enabling the same binary code to be offloaded from the big energy-intensive processor to the little low-power processor Powered by VEE Wear.

UNLIMITED WATCH FACES

Enhance your smartwatch with 500,000 watch faces using the Facer app and access the Facer community, comprised of over 30,000 watch face developers.

DEDICATED APP STORES AND DEVELOPER ECOSYSTEM ON ANY WATCH

Foster customer loyalty by introducing dedicated apps and capitalize on lucrative app monetization opportunities through an application store.

Why VEE WEAR?

“The extreme versatility and ease of use of MicroEJ’s solution are outstanding. Its flexibility drives the creativity and boosts the efficiency of our research department. Since we started collaborating, Polar Electro has accelerated the release of a watch to market. Our partnership delivers advanced user interfaces and other great features to our users while dramatically reducing electronics requirements to minimize carbon footprint and cost.”

Sander Werring / CEO at Polar Electro Group

EXPLORE VEE WEAR FEATURES

HOW VEE WEAR DRIVES VALUE

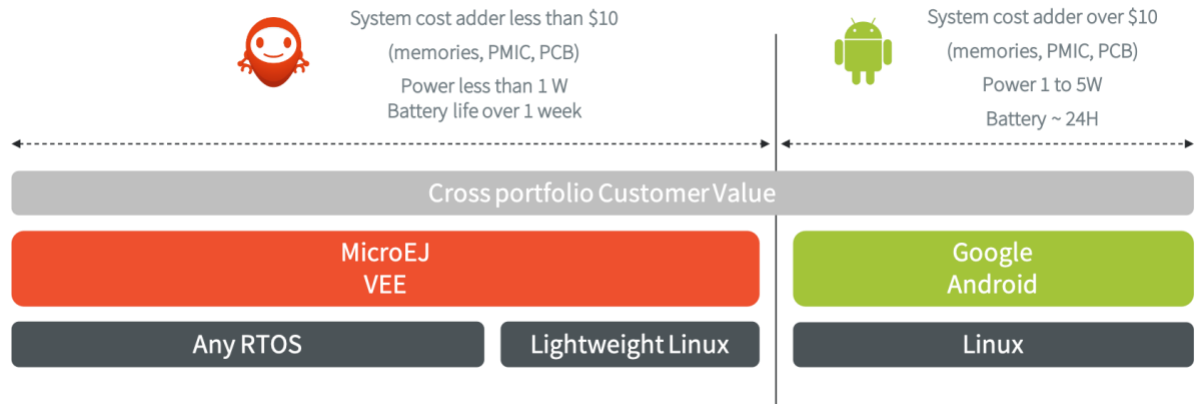
Accelerate market entry, reduce costs (including massive memory cost reductions), and deliver a vibrant user experience with VEE Wear.

Extend battery life and reduce the carbon footprint by up to 45% with the most optimized commercial wearable OS.

Securely open your product to apps and watch faces from the entire wearable ecosystem.

- Customizable watch faces and ready-to-use apps, including heart rate monitoring, activity tracking, and compass functionality, empower manufacturers with a rapid starting point for designing smartwatches and gathering valuable user feedback.
- Unique power optimization for popular chipsets, such as the NXP i.MX RT595 Crossover MCU, allows for efficient utilization of multiple cores and GPU acceleration, saving months of development time.
- Android and iOS compatibility for wearable apps ensures a seamless mobile app experience, including watch face integration for cost-effective watches. This eliminates the need for extensive redevelopment required to ensure accurate rendering on Android or iOS watch face pickers.
- The Android offloading framework and rich ambient mode effectively extend battery life and enhance customer satisfaction. Utilizing a hardware big-little architecture (MPU+MCU), VEE Wear enables seamless transitions of your watch face binary code between an energy-intensive processor powered by Android and a low-power processor powered by VEE Wear. This ensures a vibrant user experience in ambient mode.
- Access 500,000 watch faces supported by Facer.io's platform and its thriving community of 30,000 watch face designers. Customize any watch to deliver a premium experience to your customers, powered by the Low Power Face APP on VEE Wear.
- Develop with an array of extensive wearable APIs, encompassing UX/UI components, communication, signal processing, AI, security, audio, sensors, apps, and a subset of Android APIs.
- Receive support from certified design partners, such as MIJO Connected, offering fast turnkey solutions, customization, or contributions to your design. Our partners possess extensive industry knowledge and have designed numerous smartwatch brands that have sold millions of units.
- Supports Multiple Kernels: VEE Wear maintains compatibility with kernels such as RTOS, Linux, Android Open-Source Project (AOSP), and many custom kernels. Based on VEE containers, it unites diverse solutions into a singular, compatible environment, making it more appealing for app providers to participate in ecosystems.

AN APP CONTINUUM SPANNING MICROCONTROLLERS AND MICROPROCESSORS, ENSURING SEAMLESS COMPATIBILITY BETWEEN ANDROID AND VEE WEAR.



KEY FEATURES INCLUDE

Virtual Device Development

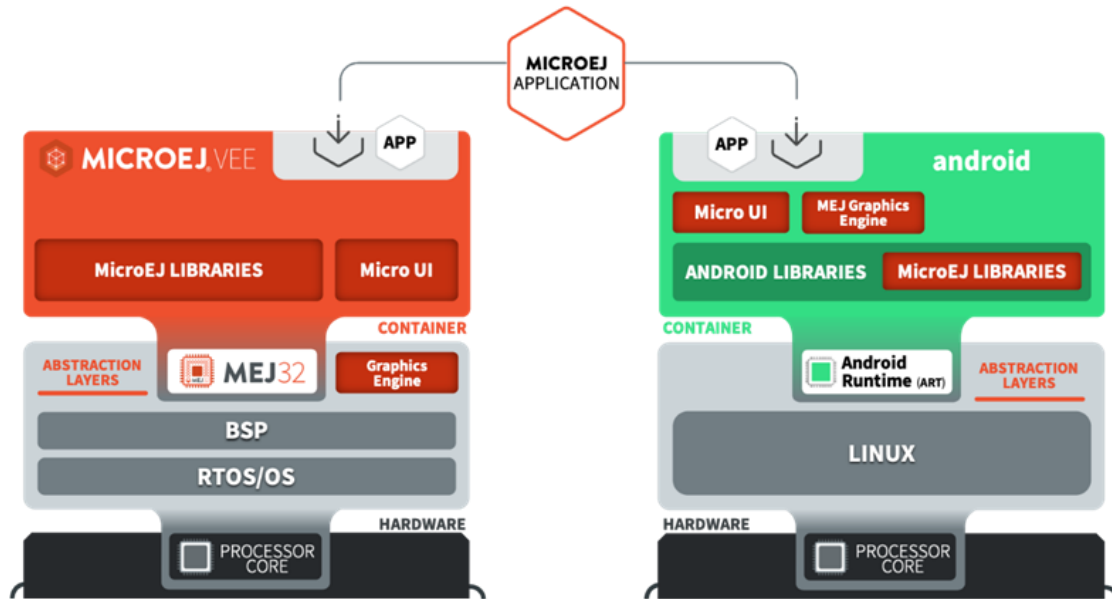
Develop, test, and validate your software application from your desktop when hardware is undefined or not yet accessible. The code is identical on both real and virtual device, as the virtual device replicates the real hardware with all its functionalities.



Android Compatibility Kit

By using MicroEJ Android Compatibility Kit, developers can use familiar tools such as Android Studio, IntelliJ IDEA, and Gradle to build energy-efficient applications, leveraging low-power features embedded at the heart

of MICROEJ VEE for highly optimized resources usage. Thanks to seamless compatibility, the same application can be developed, simulated, tested, and run on both Android and MicroEJ environments alike.



Multi-Sandboxed Environment

MICROEJ VEE offers app multi-sandboxing on low-cost, low power microcontrollers and microprocessors. This unique capability ensures the safety of apps and simplifies their portability across different technical environments. Moreover, it facilitates the cost-effective integration of third-party applications to enhance device functionality.



Managed Code support

MICROEJ VEE provides support for managed code in containerized applications, streamlining development, enhancing reliability, boosting security, and optimizing memory management. It offers managed code support for the Java, JavaScript, and C languages (with Kotlin support coming soon).

Learn more about VEE Wear at:

www.microej.com/product/veewear or reach out to hello@microej.com for more details.

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