

## ZULU EMBEDDED BENEFITS

### Based upon Zing, Azul's flagship JVM

Zing Embedded builds are custom to your specifications and based on Zing, Azul's pauseless runtime for Java that has been used in many of the world's most demanding accounts since 2010. Zing and Zing Embedded are fully compatible, certified and compliant implementations of the Java Platform, Standard Edition (Java SE). Java 7 and 8 as well as Java 8 Compact Profiles are all supported by Zing Embedded.

### 10-year support lifespan

Zing Embedded build releases are supported for at least ten years after each major Java SE release, providing longevity for your product life cycle.

### Easy to deploy

Across a wide variety of devices and operating systems. Zing Embedded is fully certified Java SE and requires no coding changes to your applications. Leverage industry-standard Java tools for development and profiling.

### Fully supported by Azul Systems

Azul's globally distributed support team has over 12 years' experience supporting mission-critical Java applications for some of the world's most demanding deployments.

### Professional production support

Premium technical support, Azul's Application Guard service, and optional dedicated Azul Technical Account Managers are all available to ensure peace of mind for you and your end customers.

# Zing® Embedded: Powerful Java runtime with deterministic performance

Fully compliant with Java SE Embedded.

Built, configured and tested to your specifications.

Support for up to 2 TB of pauseless heap memory.

Accelerate time to market, remove Java GC as a factor in your architecture.

Proven performance with mainstream Java-based technologies, including Lucene, Spark, Cassandra, Hadoop, Hazelcast and many others.

## INTRODUCING ZING® EMBEDDED

Zing Embedded is a JVM for applications that require pauseless operation, a configurable form factor, and full compliance with the Java SE standard. Zing Embedded is designed to make the power and flexibility of the Java platform available for embedded products that must meet or exceed latency or jitter standards that are difficult or impossible to achieve with legacy Java runtimes. It is ideal for companies shipping highly performant embedded systems like network appliances, manufacturing control systems, security or messaging gateways. With Zing Embedded you can specify the target Linux distro and kernel, underlying hardware architecture and memory configuration, as well as Zing's overall on-SDRAM or in-memory footprint, ranging from full Java development environments to ultra-compact, runtime-only profiles, containers and configurations.

Azul maintains and supports each Zing Embedded build with expertise honed over 12 years building and supporting Java in a wide variety of demanding environments on mission-critical applications. Zing Embedded comes with high-quality Premium support that includes a 10 year lifespan aligned with each Java SE standard major release. Our highly trained customer support engineers have extensive Java experience and deep knowledge of the JVM, memory management, performance, and usage of production monitoring tools.

## FULLY CERTIFIED STANDARDS COMPLIANT

Each Zing Embedded build is certified compliant with the Java SE standard. Builds based on Java 8 Compact Profiles are also available for solutions requiring a smaller footprint or being deployed in resource-constrained environments. Both type of build can be performance-optimized for embedded systems. Our experienced quality assurance team performs exhaustive compatibility testing, including all tests in the Java SE version of the OpenJDK Community TCK (Technology Compatibility Kit) and our additional, rigorous quality assurance testing. We will also test against custom hardware configurations as an option.

For every platform configuration you order, you will receive Azul's Application Guard service. Our QA team will test your configuration with our rigorous Quality Assurance processes, conduct all tests for your Zing Embedded build against the exact OS and JVM combination you specify, and keep the configurations on call for ongoing support and issue recreation.

## SIMPLE AND FLEXIBLE PRICING

Zing Embedded pricing is designed to be flexible and tailored to the needs of your product line. We will work with you to determine a pricing model that matches your business requirements. Pricing options can be based upon device counts, flat fees, percentage of revenue, or other flexible pricing models.

### Zing Embedded Features

- Based on Azul's Zing, a pauseless Java runtime optimized for mission-critical workloads
- Certified to comply with the Java SE standard, verified using the Technology Compatibility Kit for Java 7 or Java 8
- Premium technical support included
- Access to bug and security fixes as needed outside your standard release cycle
- Available for a wide variety of operating systems, hardware platforms, processor types, and Java configurations
- Azul can build customized bundles for specialized targets, board support packages, and form factors to fit your specifications
- Flexible pricing models

### Operating Systems

- All major embedded and server-based Linux distros.

### Choose a custom set of Java components

- Base is JRE core, may include JDK tools, or additional APIs.
- Select headless, headful, or compact Java profiles.
- May Include Zing Commercial Compatibility Kit (CCK) or other third party redistributables.

### Hardware

- Intel/AMD x86. 64-bit architectures only.

### Packaging

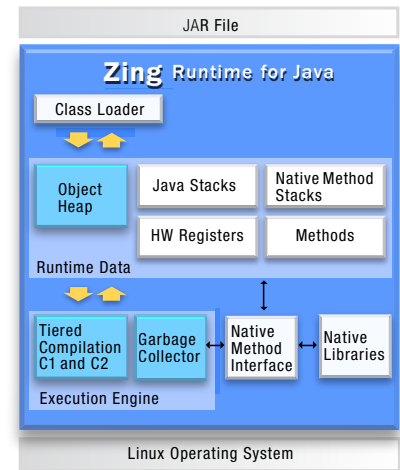
- Standard packaging such as ZIP, MSI, and DEB are available. Please contact us for custom packaging.

### Java Versions

- Java 8, and 7, plus Java 9 when available.
- Java 8 Compact Profiles.

### Use Cases for Zing Embedded

- Manufacturing and Process Automation
- Network Function Virtualization
- Real-time billing, mediation and other OSS platforms
- Smart Grids
- Security monitoring and analytic systems
- IoT-centric Cloud instances



### About Azul Systems

Azul Systems, the industry's only company exclusively focused on Java and the Java Virtual Machine (JVM), builds fully supported, standards-compliant Java runtime solutions that help enable the real time business. Azul is a member of the Executive Committee of the Java Community Process (JCP), the Eclipse Foundation and the Cloud Foundry Foundation.

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