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What is STM32Java?

• STM32Java is a complete solution to develop and deploy applications on STM32 microcontrollers using Java technologies

• This solution was developed by 2 partners
  • **STMicroelectronics**: semiconductor company
  • **IS2T**: software editor (embedded Java solutions provider)

• STM32Java
  • **Simplifies software development**: object oriented programming and easy prototyping
  • **Speeds time to market**: Java roughly divides by 5 software development time
  • **Brings into play new talents**: Millions of skilled Java developers worldwide
Why Java on a microcontroller

• Object oriented language and a virtual machine
  • Software is easier to maintain
  • Perfect fit for embedded graphics applications

• Implementation ensures application memory footprints similar to C
  • Virtual machine: 30-Kbyte ROM, 1.5-Kbyte RAM

• Seamless integration with C to enable reuse of legacy code

• Garbage collector mechanism solves memory leaks problems
  • Removes roughly 40% of bugs seen with C

• Ubiquity: Java is everywhere, so simulation on a PC is easy
Typical markets for embedded Java

- **Consumer**
  - Kitchen equipment (cookers, ovens, washing machines)

- **Home appliances**
  - Comfort (heating)
  - Security (alarms, access control)

- **Industrial**
  - Automation

- **Metering**
  - Smart metering

- **Healthcare**
  - Body control equipment
STM32Java offer

- Dedicated STM32 part numbers enabled for Java
  - Part numbers ending with the letter U for sampling (example: STM32F417IGT6U)
  - Part numbers ending with the letter J for production (example: STM32F407IGT6J)

- A set of STM32 embedded software
  - Java Virtual Machine with standard libraries
  - Board support packages

- A set of tools to ease software development
  - STM32Java SDK, OEM version of MicroEJ SDK from IS2T (Eclipse-based)
  - On-PC simulator for easy prototyping

- Special tools for graphical user interfaces
  - Tools for graphics: panel designer, story board designer, font designer
  - A set of libraries for embedded graphics: widgets, fonts, images, and more
Cost of the STM32Java offer

• For evaluation
  • STM32Java SDK 3-month limited evaluation version
    • Free download at www.stm32java.com
    • Kits with an evaluation board and a DVD-ROM
      • STM3220G-JAVA with an STM32F2 series evaluation board
      • STM3240G-JAVA with an STM32F4 series evaluation board

• For development
  • STM32-JAVA, One year STM32Java SDK license at US$ 2600, with maintenance and support
Further information and access to STM32Java

On www.st.com

- [www.st.com/stm32-java](http://www.st.com/stm32-java)
- [www.st.com/stm3220g-java](http://www.st.com/stm3220g-java)
- [www.st.com/stm3240g-java](http://www.st.com/stm3240g-java)

On dedicated web site

- [www.stm32java.com](http://www.stm32java.com)
- support.stm32java@microej.com
Thank you