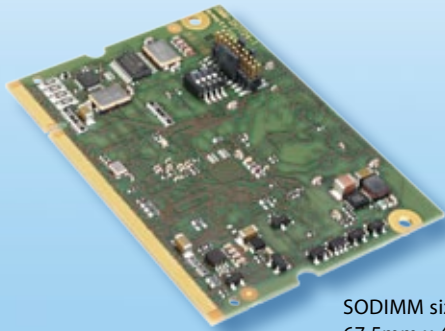


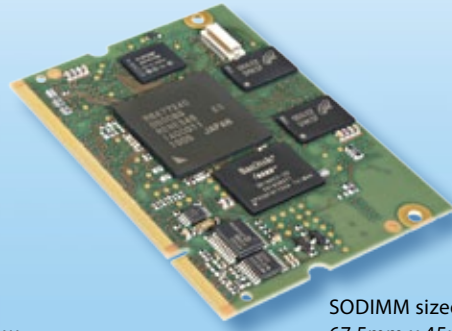
## DIMM.SH7724

# Embedded Computer

Boards for sophisticated embedded design projects



SODIMM sized module:  
67.5mm x 45mm, top view



SODIMM sized module:  
67.5mm x 45mm, bottom view

### Key features:

- Processor Renesas SuperH SH-4A SH7724  
500 MHz, 900 MIPS
- 256 MB DDR2 SDRAM / 1GB NAND Flash
- TFT interface up to SVGA, Touch
- Video in / Video out
- 2D processing unit, JPEG processing unit
- 2\*CCD Camera interface
- MPEG4 hardware accelerator
- Analog and digital Audio
- USB 2.0 Host and Device
- 100BaseTx Ethernet
- 4 serial interfaces
- Board-Support-Package for Linux 2.6
- Realtime Java Virtual Machine JamaicaVM
- Fits in a regular 2,5V SODIMM200 memory socket - easy extensible with a carrier board
- Low power consumption < 1,5 Watt!

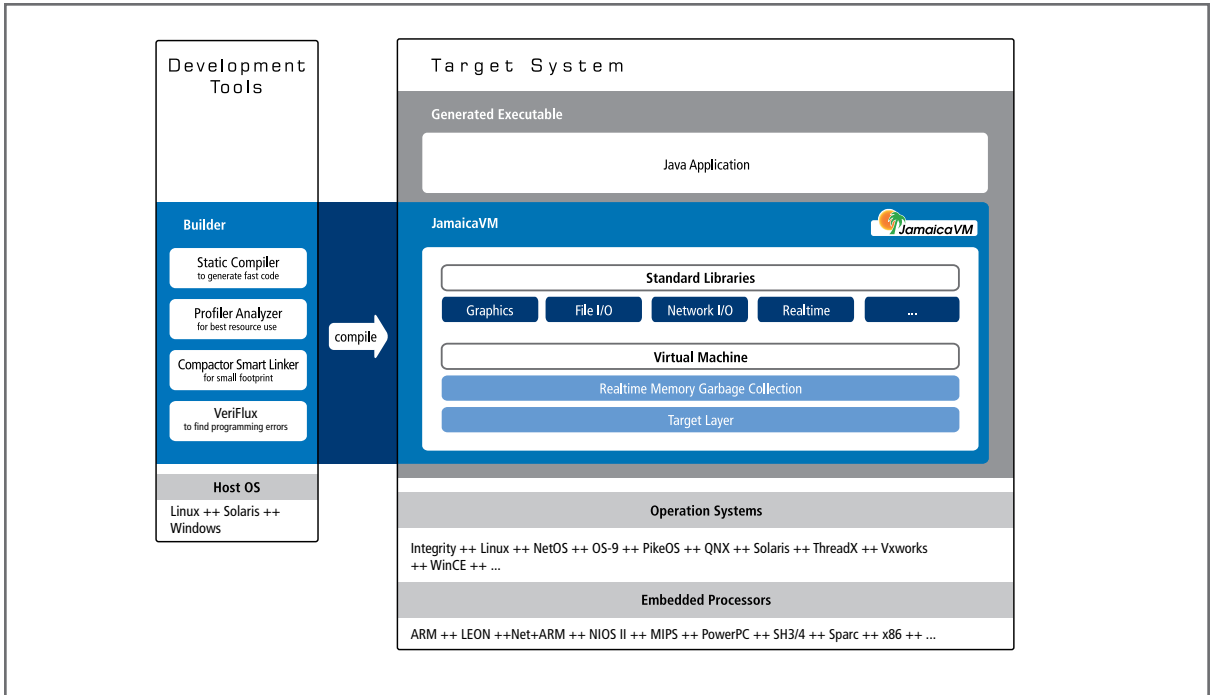
### Key Applications:

- Industrial applications
- V2IP (video and voice over IP) devices
- Video surveillance systems
- Operation panel units, HMI
- High-end Audio/Video equipment
- Mobile applications

### Use JamaicaVM Java Technology for your DIMM.SH7724 applications:

- Supports Features of Java 6
- Highest Development Efficiency
- Powerful Development Suite
- Ease of Use through Integration in Eclipse
- Small and Fast
- Demanding Visualization with SWING and AWT
- Hard Realtime Performance
- Unique Realtime Memory Garbage Collection
- Flexible and Extensible without Restart
- Steady and Precise Response





Getting started and reducing your time to market:

• **JamaicaVM:**

JamaicaVM 6 is an Embedded Java Virtual Machine, which supports most features of Java 6. It is based on a real-time garbage collector, enabling the use of Java even in time- and safety-critical applications. Also, JamaicaVM takes the popular Swing graphics library, which is most popular for Desktop applications, into Embedded Systems with SH-4A based CPUs, like the DIMM.SH7724. Thus it enables the fast and easy creation of applications in the areas handling, control, visualisation, remote maintenance and capture of production data. JamaicaVM 6 is the easiest solution for porting Java applications that were written for a Desktop PC to Embedded Systems with SH7724 microprocessors. The small footprint of JamaicaVM (<1MB) makes it attractive even for high-volume devices with very limited resources.



• **System developer and Application developer Starter kits**

From emtrion you can buy the hardware but also software and hardware combined into one of our System developer or Application developer Starter kits. You can start your application or kernel development easily, and shorten the time to market.

SBCs & PROCESSOR CORE MODULES