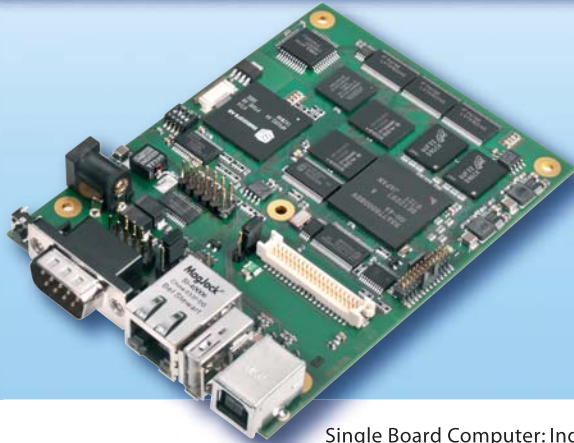


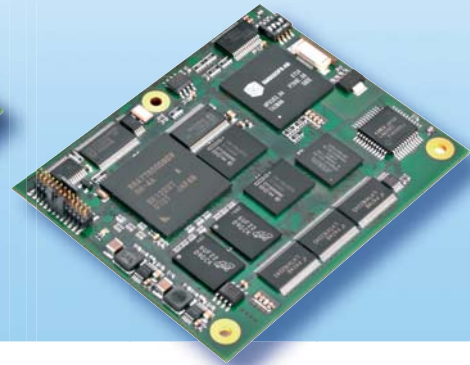
HiCO.SH7780

Embedded Computer

Boards for sophisticated embedded design projects



Single Board Computer: Industrial standard
Dimensions: 82 x 110 mm



Core module: Industrial standard
Dimensions: 82 x 66 mm

SBCs & PROCESSOR CORE MODULES

Key features:

- Processor Renesas SuperH SH-4A 7780, FPU
- Complies with HiCO.nect: extensible up to a PC/104 system
- LCD-VGA Graphics 1024 x 768 Pixel
- 32MB NOR Flash/128MB DDR SDRAM
- USB Host, USB Device
- 100BaseTX Ethernet
- 3*serial (1*RS232, 2* LVTTTL)
- CAN Controller, CAN2.0B, CAN2.0A
- CF Card and MMC Controller
- MicroSD Socket
- Extended temperature range possible

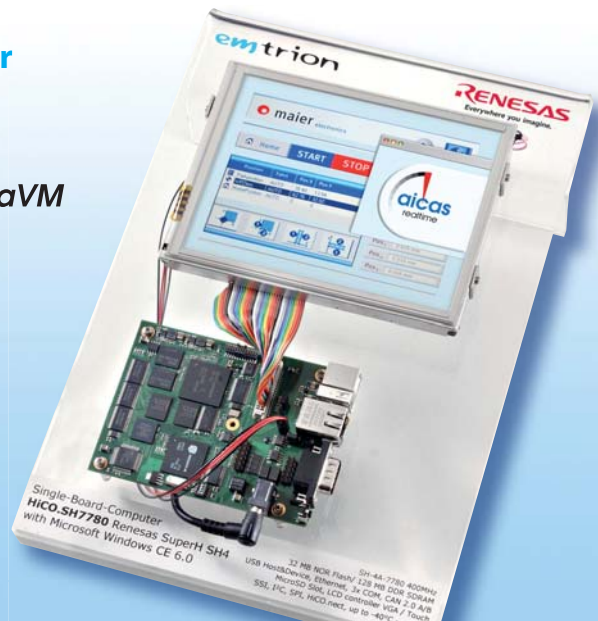
- Board-Support-Package for Microsoft Windows CE 6.0, QNX 6.3, Linux 2.6
- Realtime Java Virtual Machine JamaicaVM
- Short boot time
- Low power consumption ~3Watt: runs fanless!

Key Applications:

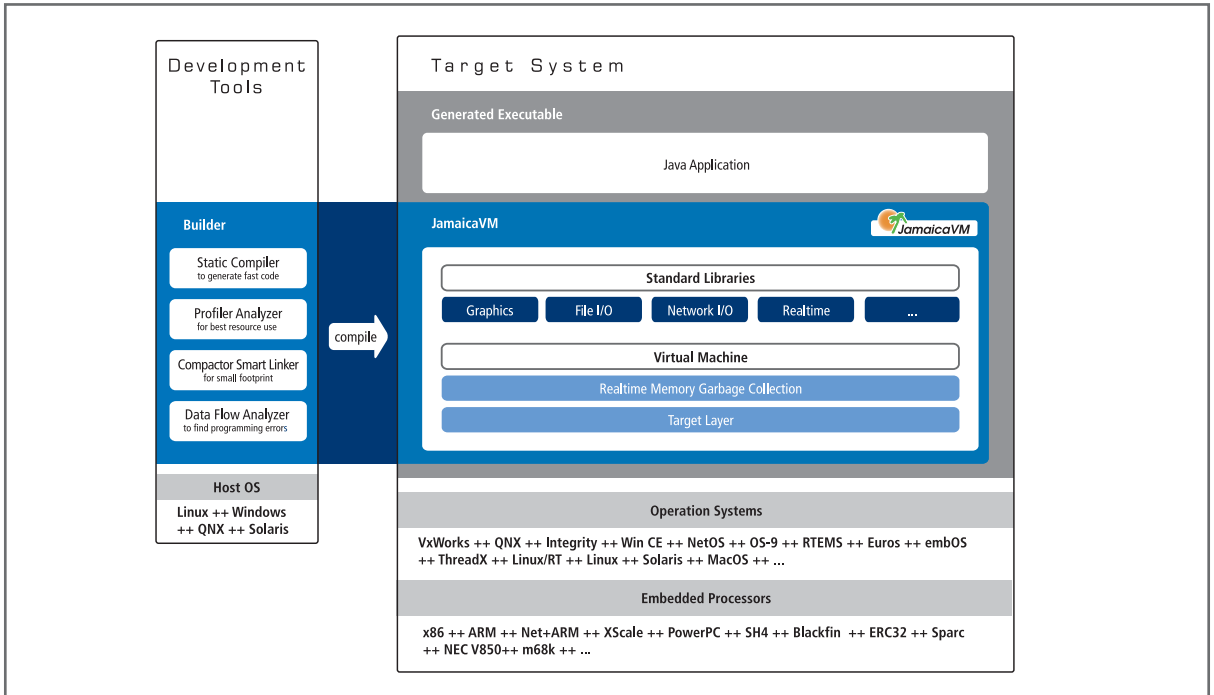
- Industrial equipment
- Digital home electronics products
- Network control systems
- Car navigation systems
- Game machine

Use JamaicaVM Java Technology for your HiCO.SH7780 applications:

- Supports most Features of Java 5
- 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



Single-Board-Computer
HiCO.SH7780 Renesas SuperH SH4
with Microsoft Windows CE 6.0
SH-4A-7780 400MHz
32 MB NOR Flash/128 MB DDR SDRAM
USB Host/Device, Ethernet, 3x COM, CAN 2.0A/B
MicroSD, MMC, LCD controller, USA / Touch
SSD, I2C, SPI, HiCO.nect, up to -40°C



Getting started and reducing your time to market:

• **JamaicaVM:**

JamaicaVM 3.2 is an Embedded Java Virtual Machine, which supports most features of Java 5. 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-4 based CPUs, like the HiCO.SH7780. Thus it enables the fast and easy creation of applications in the areas handling, control, visualisation, remote maintenance and capture of production data. JamaicaVM 3.2 is the easiest solution for porting Java applications that were written for a Desktop PC to Embedded Systems with SH7780 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