

EM EV2

Multimedia Processor with Dual ARM® Cortex-A9 Cores

Renesas Electronics' EM EV2 application processor device is ideally suited to customers needing a high performance dual-core ARM® Cortex A9 solution. The device features two Neon extensions, an integrated audio video engine (AV engine), and a 3D graphics block to enable high-class processing in a range of applications. The processor contains a wide variety of interfaces for cameras, displays, mass storage devices, memory devices, and many other peripherals. EM/EV2 achieves high-performance multimedia processing of up to HD-level decoding by means of hardware acceleration, while consuming minimal power.

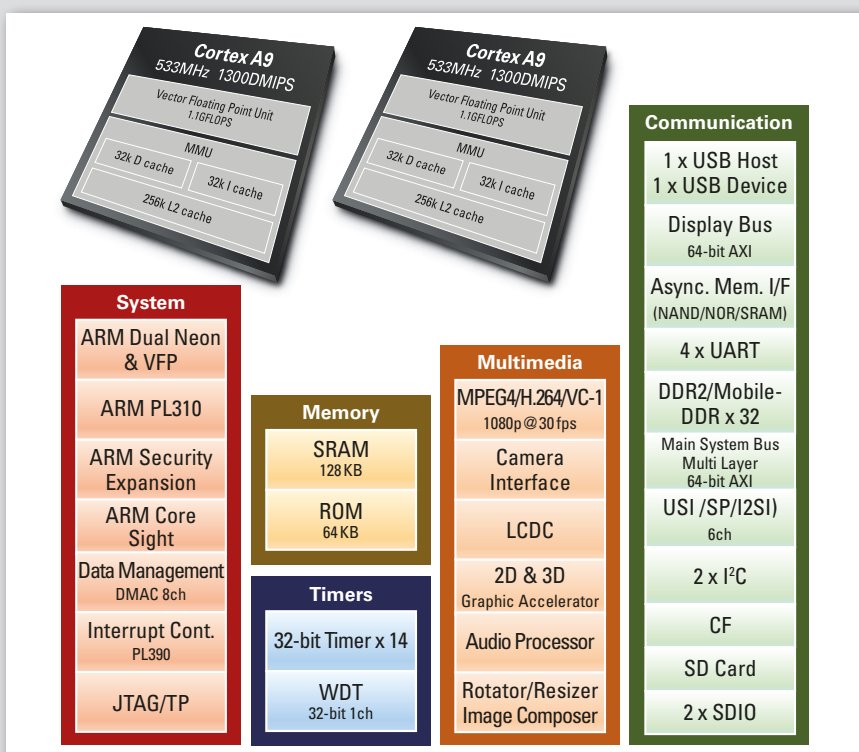
Applications

- GUI Applications
- Vending machines
- Control Panel
- Tablet PC
- Handheld Navigation
- In-Home Energy Monitors

Key Benefits

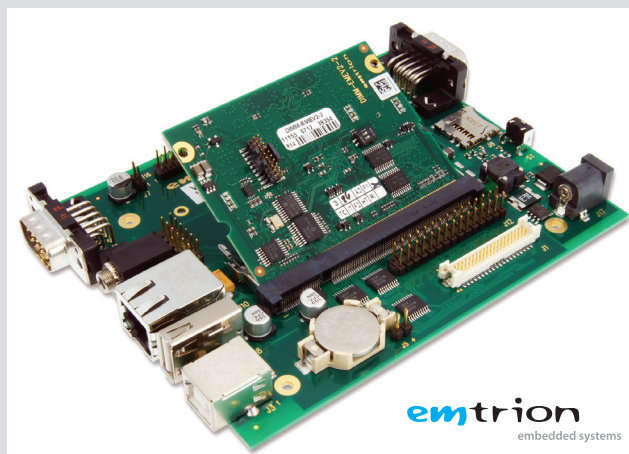
- Latest CPU core from ARM with Neon Extension
- High Performance / Low Power
- 3D processing at 14.7 mega-polygons per second
- HD 1080P at 30fps Video Decoder

Block Diagram

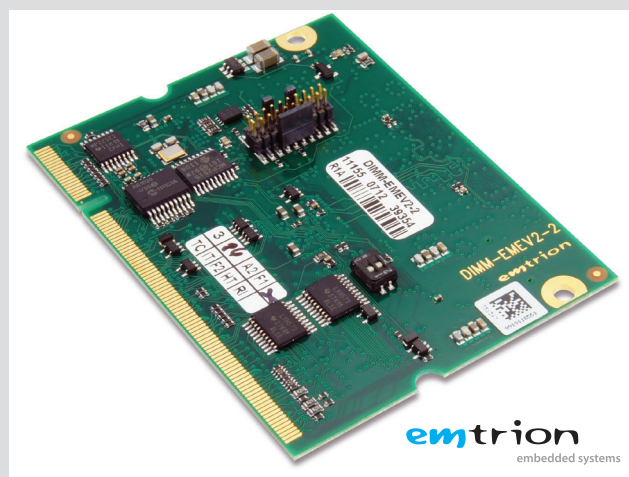


Hardware Development Tools

Renesas Electronics has partnered with its platinum alliance partner Emtrion to create a perfect solution for EM EV2 Hardware development tools.



The starting point is easy. The development kit from Emtrion includes a screen, Base-Board, BSP and a DIMM module. Then once development of software is started, customers can then simply replace the base board with their own optimised base board and go into mass production. The mechanism provides a much faster time to market for all processor based systems.



Software Development Tools

The EM EV2 development board is supplied with a Board Support Package (BSP) for Android 2.3 (Gingerbread) meaning that applications can be written very simply ensuring again a fast time to market.

Ordering Information

Part Number	Package	Temperature Range
μPD77642BF1-GA9-A	393-pin FPBGA package (16 x 16 mm) ball pitch: 0.65 mm	-10 to +70 °C

For information regarding developer kits and processor modules, contact emtrion at sales@emtrion.com.

Before purchasing or using any Renesas Electronics products listed herein, please refer to the latest product manual and/or data sheet in advance.

