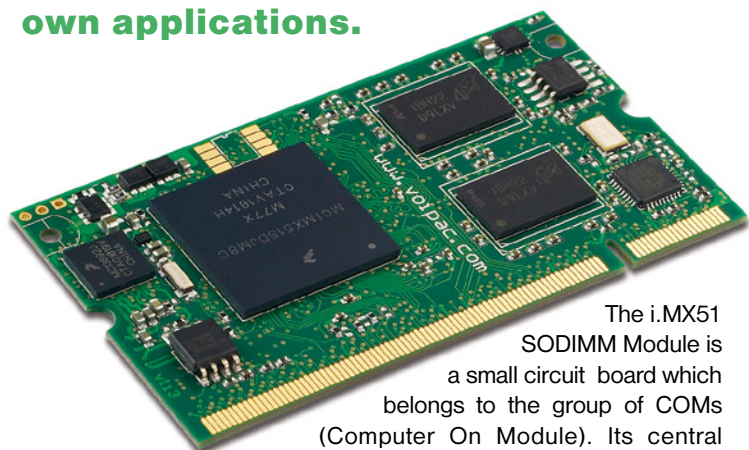


i.MX51 SODIMM Module

The i.MX51 based module represents optimal performance and cost-effective solution for embedded systems. With preinstalled operating system and running up to 800MHz, the module enables almost anyone to design new product with quick set-up and easy-to-handle programming of own applications.



The i.MX51 SODIMM Module is a small circuit board which belongs to the group of COMs (Computer On Module). Its central component is the high-performance and low power consumption i.MX51 multimedia processor from Freescale. This 1mm thick 10-layer microcontroller board includes all of the technologically and development demanding parts such as the CPU, Flash, SDRAM, I2C and Ethernet chip, saving many man-months of the high-frequency PCB design, complex prototyping, debugging and OS porting, thus minimizing the time-to-market of the customers' own applications. The i.MX51 CPU is targeted at the automotive as well as the general embedded industrial markets, such as: terminals, automation, net applications, attendance systems, point of sales, gaming machines, navigations, netbooks and multimedia systems, building automation, security and surveillance systems, autopilots, handheld PCs, and many other fields, where there is a benefit of using operating system.

With the i.MX51 COM, you can enjoy all the benefits of:

- **using modular solution**

and focus all the effort at your customer's requirements. With SODIMM modular solution, you do not have to waste your time developing what's already available

- **running operating system**

on your own product provides you with an option of re-using already existing code such as drivers or standard applications thus accelerating your software development

- **having access to schematics**

freely available at Voipac website minimizes the number of required hardware spins allowing you to keep your budget and timetable under control

- **getting great support**

provided for free to every complete development kit saves not only the startup time, but the overall project time requirements

As the only manufacturer in the embedded COM segment, **Voipac provides complete schematic of the module itself to every complete development kit purchased for no extra charge.**

Hardware Specification

CPU:	i.MX51 (Freescale) up to 800MHz, ARM Cortex A8™
NAND FLASH:	128/256/512/1024 MB
DDR2 SDRAM:	64/128/256/512 MB
I2C EEPROM:	512 Kb
SPI FLASH:	8 Mb
Ethernet:	10/100 Mbps
Power supply:	single 3.6 V to 5.5 V
Form factor:	200pin SO DIMM
Dimensions:	67.6 x 38.0 mm
Temperature range:	Commercial 0°C to +70°C Extended -20°C to +70°C Industrial -40°C to +85°C

RoHS compliant

Key Features

High-Speed USB 2.0 OTG
High-Speed USB 2.0 Host
LCD controller supporting XVGA 1280x768
Multimedia performance boost units:

- VPU – Video Processing Unit
- IPU – Image Processing Unit
- GPU 3D – OpenGL ES 2.0
- GPU 2D – OpenVG 1.1

HD video encoder/decoder
Still-picture camera interface
Vector Floating Point
3xUART/2xSDIO/I2C/SPI/EIM/GPIO
2xSSI/AC97/I2S
Keypad controller
PMIC including battery charger

Supported Software

OS Linux 2.6 (preinstalled)
Windows CE 6.0 Embedded (optional)
Android Gingerbread 2.3 (optional)



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