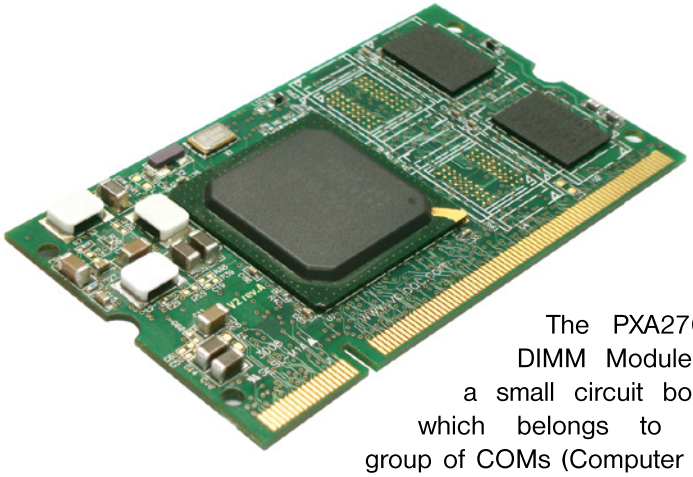
PXA270M DIMM Module

Embedded systems that are capable of running an operating system have been increasingly entering worldwide market. These devices gained interest of users because of quick use, and also easy-to-handle programming of one's own applications.



The PXA270M DIMM Module is a small circuit board which belongs to the group of COMs (Computer On Module). It can be plugged into a standard 200 pin DIMM connector which allows base board components to be placed even beneath the module. Central component of the module is the PXA270M processor with up to 520MIPS. The Module is further equipped with SDRAM and FLASH memory chips, as well as a soundcard with touch controller, USB hosts and 100Mbit Ethernet. It can be supplied in a various processor and memories configurations, in Commercial or Extended temperature range. The Module provides glueless connectivity to passive and active LCDs, as well as a 4-wire resistive touch screens.

The PXA270M DIMM Module represents the second generation of the successful PXA270 DIMM Module, utilizing OneNAND FLASH memory chip that allows higher data transfer rate and increases the maximum FLASH size up to 128MB.

The PXA270M DIMM Module is designated for customers who would like to take advantage of a high-performance and low power consumption embedded system. It further allows for rapid development as the design-extensive parts are located on the module itself.

The Module is supplied with a bootloader (u-boot) and preinstalled Linux OS that is equipped with drivers for peripherals found on the Module, or Windows CE operating system.

Specification

- CPU PXA270M (312, 416, 520MHz)
- FLASH 64, 128 MB (16bit)
- SDRAM 8, 16, 32, 64, 128, 256 MB (32bit)
- DIMM 200 pin connector
- 10/100 Mbps Ethernet (32bit)
- Audio AC`97 with touch controller (UCB1400)
- TFT/STN controller (800x600, 18bit)
- 1x USB dedicated host
- 1x USB 2.0 OTG host/device
- 3x Serial and SSP port
- I2C bus
- PWM
- MSL (up to 416Mbps)
- Free GPIO pins available
- PCMCIA/CF, MMC/SD
- Power supply 3.3V with flexible PMIC
- Commercial / Extended temperature range
- OS Linux 2.6 / WindowsCE 6.0
- Dimensions: 67.6 x 38.0mm

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