WM8505 System Overview

The wm8505Application processor is the SoC solution with superior networks and display capabilities that specially tailored for cost-effective embedded multimedia devices.The WM8505 supports display resolution up to 1024x600 and 10/100 Ethernet MAC.The WM8505 is a low power consumption SoC solution that demands 1.8V for DDR2 SDRAM,and 3.3V for other interfaces as operating power.the WM8505 integrates multimedia features and functionalities,e.g. decoding popular audio/video streams,2D graphics display,and peripheral I/Os that are aiming to meet upcoming market demands as well as reduce customer's total BOM cost.the WM8505 is designed to deliver the state-of-the-art performance for applications such as Networked projector,Digital Signage,and Thin-Client Terminal.

The WM8505 Application processor integrates all popular peripherals in an efficiently architected RISC (reduced instruction set computer)platform.Figure 1 illustrates the system block diagram of Wonder Media's WM8505 Application processor.

Figure 2 illustrates the software architecture of the WM8505 Application processor.The WM8505 supports Linux and windows CE for embedded systems.WonderMedia provides the software package that includes device drivers for multimedia ,peripheral ,and security-related devices as well as multimedia poayer with high audio,video,and image quality, The software architecture of WM8505 can easily collaborate with the 3rd party software packages to provide versatile applications.