



Features

Processor

- 32-bit RISC architecture
- Digital signal processor (DSP) extensions

External Memory Support

- DDR SDRAM
- Serial Flash
- NAND Flash
- Removable Flash Memory Cards (MS, SM, ST, MMC, xD, CF)

Connectivity/Interfaces

- USB 2.0 high-speed device
- USB 2.0 high-speed hosts (3)
- Peripheral bus with direct memory access (DMA) support
- UARTs
- Parallel port

Image Processor

- JPEG codec
- Hardware rotates
- Color Space/Image Filter/Error Diffusion

Display Support

- TFT LCD (Digital RGB)
- CCIR656

- QVGA/VGA Evaluation Modules

- 5.0"–12" Displays

Digital Camera Support

- Mass storage class
- Picture transfer protocol (PTP)

Timers

- Real-time clock

A/D and PWM Control

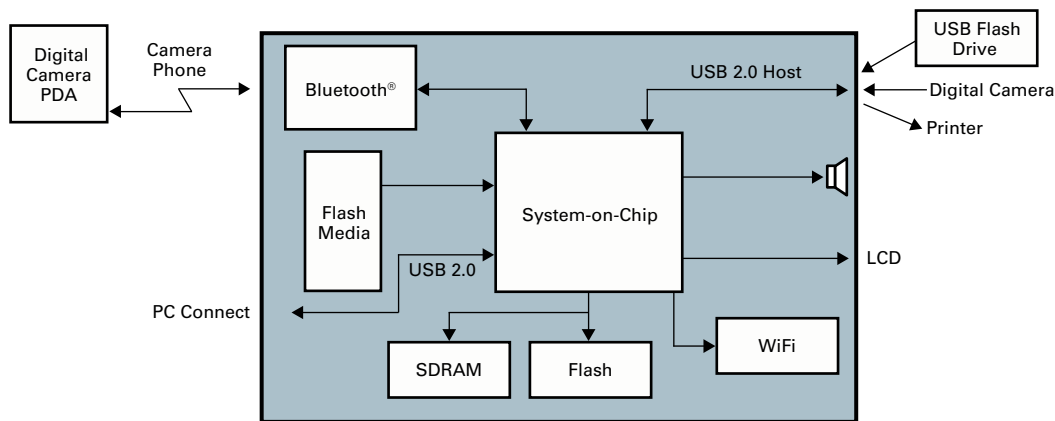
- 8-bit A/D
- Four pulse width modulators (PWMs) with firmware control
- PWM backlight control circuitry

Package

- 256-pin ball grid array (BGA)

Development Environment

- C/C++ Compiler/Assembler/Linker
- JTAG In-Circuit Emulator
- PC Command Line Debugger/Profiler
- Conexant's SigmaTel Product Line Development Environment



STDC7150 Block Diagram

Conexant Product Portfolio

Conexant's comprehensive product portfolio includes solutions for imaging, audio, and video applications, and analog modems that enable cost-effective Internet access. The company's broadband access products include end-to-end solutions for xDSL networks, and PON solutions for fiber optic applications.

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