



Entry Level Inkjet Photo All-in-One SoC

STDC1100

Conexant's portfolio includes a comprehensive suite of semiconductor solutions for communications and consumer applications.

A Complete Controller Solution for Inkjet Photo All-in-Ones

Conexant's portfolio of communication peripheral devices and system-on-chip (SoC) solutions is the most complete product line of highly integrated imaging solutions in the industry. The STDC1100 Entry Level Inkjet Photo All-in-One is part of Conexant's SigmaTel® product line, which offers complete SoC solutions for the multi-function printer (MFP) market.

Conexant's SigmaTel MFP solutions offer the highest level of integration for the lowest bill of materials (BOM) cost, providing photographic image quality for printing and copying. Our SoCs — comprised of powerful hardware image processing accelerators and codecs, high-bandwidth system I/O interfaces, and a 32-bit microprocessor core — combine with richly featured software development kits (SDKs) to enable a high-performance imaging solution with a fast time to market. The STDC1100 controller is a comprehensive solution for inkjet photo all-in-ones (AIOs).

Benefits

- Lowers BOM costs due to the high levels of SoC integration
- Provides photographic quality prints and copies
- Connects and prints directly to most of the inkjet printheads on the market
- Supports advanced photo printing features such as six-color printing, memory cards, LCD graphic displays, IrDA, Bluetooth®, Wi-Fi®, networking and TV output interfaces
- Speeds time to market with proven in-production firmware and controller solutions
- Saves development costs and time by allowing designers to use one controller platform for an entire family of inkjet photo AIOs



Distinguishing Features

- Direct interface connections to many inkjet printer interfaces
- Hardware image processor to enable high-speed image processing and printing
- Integrated camera card and LCD display controllers
- Interfaces for IrDA and for TV NTSC/PAL display controller devices
- High bandwidth connectivity via USB 2.0 high-speed ports
 - Supports PictBridge cameras and flash drives
 - Supports Bluetooth, Wi-Fi 802.11b/g and 10/100 Ethernet
- Conexant's SigmaTel product line's flexible AIO firmware architecture SDK with reference schematics
- Host software solutions for inkjet AIOs are also available

Part Number STDC1100

Description Entry Level Inkjet Photo All-in-One SoC



Features

Printer Support

- Direct inkjet printer connections support the maximum printhead printing speeds
- Photographic quality printing
- PC-connected, wireless and network printing supported

Scanner Support

- Flatbed and sheetfed scanners supported, including timing and motor control
- Integrated contact image sensor analog front end (CIS AFE) enables direct input of analog scanner signals
- Scan pre-processing supports gamma, shading, white-level and black-level corrections
- Network scanning, scan-to-flash drives and scan-to-camera cards supported

Copier Support

- Standalone color copying with zooming and enlargements

External Memory Support

- SDRAM memory supported
- Serial flash/ROM supported

Connectivity/Interfaces

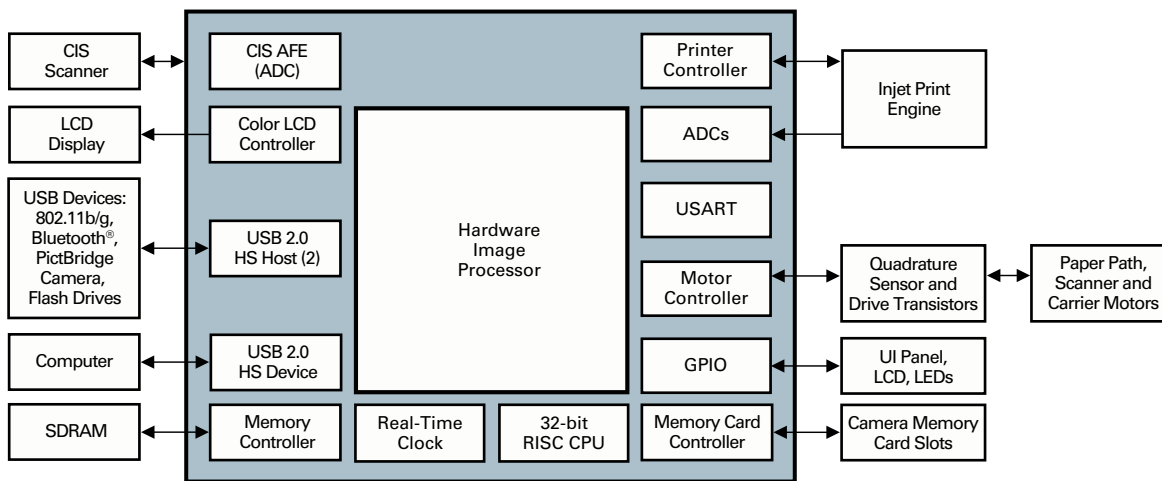
- USB 2.0 high-speed device port and multiple USB high-speed 2.0 host ports
 - Supports PictBridge cameras and flash drives
 - Supports Wi-Fi 802.11b/g, Bluetooth and 10/100 Ethernet
- Camera card interface controllers support the major media card formats
- UARTs/USARTs
- Thin Film Transistor (TFT) graphical LCD controller
- TV output interface connects directly to NTSC/PAL display controllers

Processor/CPU

- High-performance 32-bit RISC Microprocessor

Development Environment

- Conexant's SigmaTel Integrated Development Environment (IDE) for AIOs
- C / C++ Compiler/Assembler/Linker
- PC Command Line Debugger/Profiler
- JTAG Emulator/ICE and Debugger



STDC1100 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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