# **EP7312** Development Kit



**Product Bulletin** 

#### OVERVIEW

The EP7312 Development Kit provides the total system solution for developing and testing a very fast and highly integrated ARM sytem-on-chip solution. The EP7312 allows for market specific microprocessor-based decoding of a wide variety of digital audio compression standards such as MP3, AAC, Audible, and Microsoft<sup>®</sup> Windows<sup>®</sup> Media Technologies 4.0, ADPCM, etc.

The EP7312 Development Kit is a cost-effective platform that enables designers to rapidly bring hand-held information appliances, digital audio players, and network interface devices to market. It is easy to set up and includes tools required for developing and testing a highly integrated EP73xx-based system.

#### **DEVELOPMENT BOARD SPECIFICATIONS**

- EP7312 processor with dynamically controllable clock speeds of 18, 36, 49, and 74 MHz
- Color LCD Display with touchscreen
- 16-MB Intel StrataFLASH
- 16-MB SDRAM
- **32-MB NAND FLASH for encoded audio data storage**
- 16-Bit IDE Interface
- Enhanced Digital Audio Interface with 16-bit stereo D/A and A/D
- Socket for SmartMedia<sup>™</sup> card for additional NAND FLASH
- Cirrus Logic<sup>®</sup> CS8900A Ethernet Controller
- Full JTAG scan and EmbeddedICE<sup>™</sup> support for debugging
- Built-in Macraigor<sup>®</sup> Wiggler<sup>™</sup> Interface for JTAG debugging via the parallel port
- Two serial ports
- USB device interface (compliant with USB Specification Rev 1.1)
- IrDA<sup>®</sup>
- PS/2 Keyboard/Mouse Controller
- Parallel I/O Interface

#### **KIT CONTENTS**

#### Hardware

- EP7312 development board
- Color LCD 320 x 240 with integrated touch panel
- USB. Ethernet, Parallel and Serial cables
- Durable Aluminum Enclosure
- Board schematics in OrCad<sup>®</sup> 7.2 and PDF formats
- Documentation on CD-ROM
- 6 month warranty \*See Hardware User's Manual for details



### SOFTWARE

- MULTI 2000<sup>®</sup> leading embedded Software Toolkit from Green Hills<sup>TM</sup> Software, Inc. v 3.0 (30-day evaluation version) Requires Windows<sup>®</sup> 98 / Windows NT<sup>®</sup>
- ARM<sup>®</sup> Software Development Toolkit v2.5 (60-day evaluation version) Requires Windows<sup>®</sup> 95/Windows<sup>®</sup> 98 / Windows NT<sup>®</sup>

#### OPTIONAL THIRD PARTY SUPPORT AND PARTNERS

#### **Development Tools**

- GNU<sup>™</sup> Toolset from Red Hat<sup>®</sup>, Inc. (formerly Cygnus<sup>®</sup>)
  Hawk<sup>™</sup> from Microware<sup>®</sup>

## **Operating Systems**

- BlueCat Linux<sup>®</sup> from Lynuxworks<sup>®</sup>
- Dadio<sup>®</sup> from I-Objects<sup>®</sup>
- ThreadX<sup>®</sup> from Express Logic<sup>®</sup>, Inc.
- Nucleus Plus<sup>TM</sup> from Accelerated Technology<sup>®</sup>, Inc.
- OS-9<sup>®</sup> from Microware<sup>®</sup>, Inc.

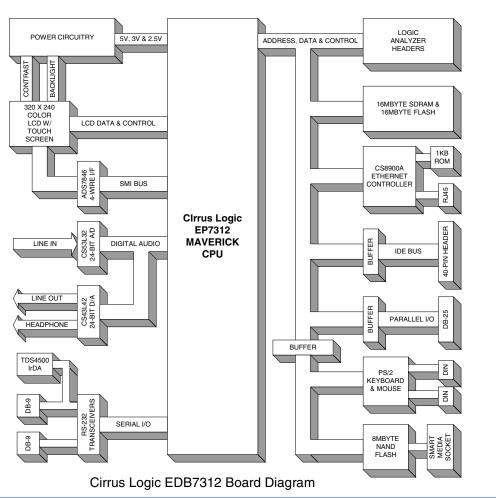
### **Debuggers/Emulators**

- JEENI<sup>™</sup> by Embedded Performance, Inc.
- ARM<sup>®</sup> Multi-ICE<sup>TM</sup>
- Wiggler<sup>TM</sup> by Macraigor<sup>®</sup>

#### ORDERING INFORMATION

EDB7312: Development Kit with color STN LCD on board.

- EDK7312-LW: EDB7312 with Lynuxworks' BlueCat Linux Tools and software for Windows host (free 30 day BlueCat support from Lynuxworks).
- EDK7312-LL: EDB7312 with Lynuxworks' BlueCat Linux Tools and software for Linux host (free 30 day BlueCat support from Lynuxworks).
- \* BlueCat available seperately through Lynuxworks only.



#### **Contacting Cirrus Logic Support**

For a complete listing of Direct Sales, Distributor, and Sales Representative contacts, visit the Cirrus Logic web site at: http://www.cirrus.com/corporate/contacts/sales.cfm



**Cirrus Logic Inc.** (Nasdaq: CRUS) is a premier supplier of precision linear circuits and advanced mixed-signal chip solutions. The company's products, sold under its own name and the Crystal<sup>®</sup> product brand, enable system-level applications in mass storage, audio, and precision data conversion.

With more than 900 patents (issued and pending), Cirrus Logic's inventions are substantive, and the company continues to expand its rich intellectual property portfolio through major R&D investments. Nearly half of the company's patents involve mixed-signal technology, which is key to innovating highly integrated system-on-chip solutions. Over the past decade, Cirrus Logic has achieved 70 plus industry firsts with its product introductions. Many of these innovations have set new industry standards within their respective markets.

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