A high performance, low power, highly integrated platform solution that enables the rapid development of advanced driver information and entertainment designs.

Overview

Leveraging the power of the AMD Alchemy™ Solutions Au processors and AMD Flash memory, the AMD Alchemy Solutions Driver Information Reference Design Kit (RDK) can help automotive design engineers bring to market new high-performance driver information and entertainment solutions that offer an improved driver experience by delivering the next generation of media-rich content and applications. Designed to promote the rapid development of innovative solutions, the AMD Alchemy Solutions Driver Information RDK includes all of the hardware and software needed to begin development.

The Driver Information RDK comes from our relentless focus on meeting the needs of our automotive design engineer partners. As a leading provider of technology that enables the development of next-generation driver information and entertainment systems, AMD has created a small form-factor, low-power solution optimized to help lower overall system production costs and reduce time to market.

Highlights

The AMD Alchemy Solutions Driver Information RDK has been optimized to help:

Speed up the development process
As a complete solution that includes both a hardware platform based on AMD Alchemy processors and AMD Flash memory and a complete software platform that supports WinCEfA, QNX, device drivers and low-level applications, the Driver Information RDK can help greatly speed up the development process.

Develop media-rich applications
By leveraging the power of the AMD next-generation Alchemy processors and high-density Flash memory, the Driver Information RDK helps enable the development of a variety of driver information and entertainment applications, including: turn-by-turn navigation, streaming media support (MPEG 1, 2 & 4), DVD playback, an integrated browser, and a rich graphical user interface. Through a variety of expansion slots, the Driver Information RDK is designed for future support of a complete auto sound system, Bluetooth and WWAN expansion (including GSM, GPRS, and WCDMA).

Improve design efficiency
The AMD processor-based hardware platform fits in a single DIN radio slot and is designed for low power consumption, enabling more efficient designs that lower overall system cost.

At a glance:

The highly integrated AMD Alchemy™ Solutions Au1500™ Processor

- A high speed MIPS32™ CPU core operating at 333–500MHz
- Highly integrated system peripherals
- High bandwidth memory buses

The compact Au1500 Processor board

2 x 10/100 Ethernet
USB host
2 x Serial I/O
AC-97 Codec, including stereo audio in and out
Compact Flash slot
SDRAM
  64Mbyte (2 x 256Mbit, x 16)
  128Mbyte (2 x 512Mbit, x 16)
Flash
  16Mbyte (2 x 64Mbit, x 16)
  NOR—AMD Am29LV641D
  MirrorBit Technology—AMD Am29LV641M

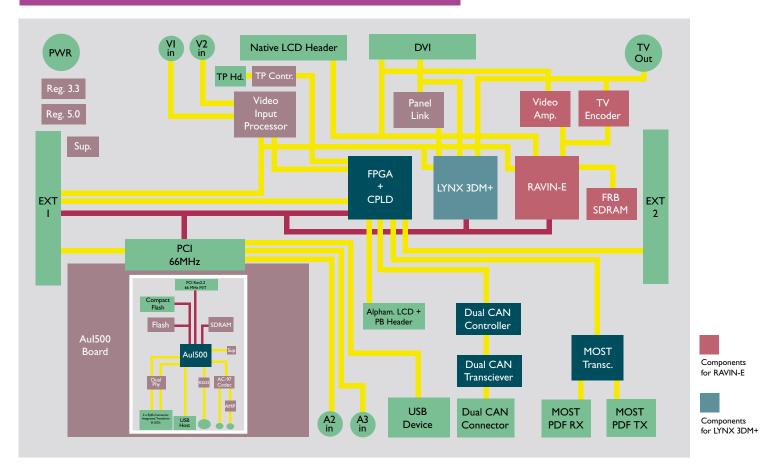**Automotive multimedia extension board**

- CAN
- MOST
- USB

3D graphics and display

- MPEG2 decode
- IDE interface
- GPS module

Operating systems support

- QNX
- WinCEfA

AMD Alchemy™ Solutions Au1500™ Processor Board

Block diagram labels: PWR; Reg. 3.3; Reg. 5.0; Sup.; EXT 1; V1 in; V2 in; TP Hd.; TP Contr.; Video Input Processor; Native LCD Header; DVI; Panel Link; TV Out; Video Amp.; TV Encoder; FPGA + CPLD; LYNX 3DM+; RAVIN-E; FRB SDRAM; EXT 2; PCI 66MHz; Au1500 Board; PCI Rev2.2 66 MHz M/T; Compact Flash; Flash; SDRAM; Au1500; Sup; Dual Phy; RS232; AC-97 Codec; AMP; 2 x RJ45-Connector Integrated Transform & LEDs; USB Host; Alpham. LCD + PB Header; A2 in; A3 in; USB Device; Dual CAN Controller; Dual CAN Transciever; Dual CAN Connector; MOST Transc.; MOST PDF RX; MOST PDF TX

Legend: Components for RAVIN-E; Components for LYNX 3DM+

About AMD

AMD is a global supplier of integrated circuits for the personal and networked computer and communications markets with manufacturing facilities in the United States, Europe, Japan, and Asia.

AMD, a Fortune 500 and Standard & Poor's 500 company, produces microprocessors, Flash memory devices, and support circuitry for communications and networking applications.

Founded in 1969 and based in Sunnyvale, California, AMD had revenues of $3.9 billion in 2001. (NYSE: AMD)

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