M9206

USB 2.0 Digital Video/Audio Device Controller

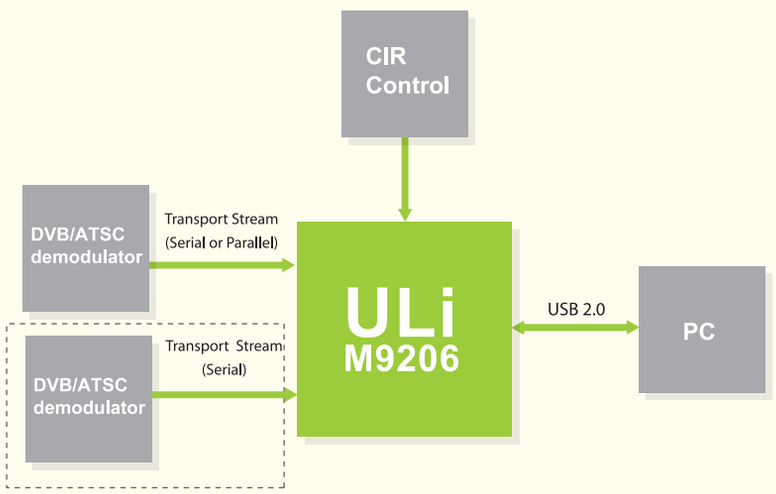
- Dual Digital Serial/Parallel Transport Stream Interface for DVB/ATSC Standards
- High-speed / Full-speed USB 2.0 /1.1 interface to the host systems
- Integrated I²C-compatible Controller with data clock rate up to 400 kHz
- Built-in high-performance 8051-compatible micro-controller

Digital Cinematic Entertainment
at your finger tips

The M9206 is a versatile digital audio/video controller for various digital TV standards such as DVB and ATSC. M9206 supports Microsoft's latest Broadcast Driver Architecture (BDA) offer customers design flexibility, broad market coverage to both DVB and ATSC standards, in-system programming (ISP) for firmware upgrades and improved time-to-market.

Featuring I²C, GPIO, and consumer IR, ULi's M9206 provide various connectivities to enriched CE multimedia applications. In addition, its outstanding power management features make ULi's M9206 an ideal solution to convert any portable devices such as notebook PCs into full- function digital TV set.

M9206 System Block Diagram



M1689

Super Athlon™ 64 Single Chipset

Features

Processor Support
- Supports AMD Opteron™, Athlon™ 64, Mobile Athlon™64 processors
- Supports HyperTransport™ Technology

Provides a High Integration Bridge
- HyperTransport™ Technology I/O Link Bus, AGP bus, PCI Bus and Peripheral Bus for Desktop and Notebook Systems

Accelerated Graphics Port (AGP) Interface
- Compliance with AGP 3.0 specification signaling, supporting 4x and 8x transfer rates.
- Compliance with AGP 2.0 specification 1.5 volt signaling, supporting 1x, 2x, and 4x data-transfer modes.
- Supports up to 32 outstanding requests

HyperTransport™ Technology (HTT) I/O Link
- HyperTransport™ Technology I/O Link Protocol Meets the v1.04 Specification
- HTT supports transfer rates of 2000, 1600, 1200, 800, and 400 mega-transfers per second.

PCI Interface
- Supports PCI Master and Slave Interface
- PCI spec. 2.3 Compliant
- PCI Power Management Interface spec. 1.1 Compliant
- Supports up to 7 PCI Masters

Provides Steerable PCI Interrupts for PCI Device Plug-and-Play

Enhanced DMA Controller
- Provides 7 Programmable Channels, 4 for 8-bit Data Size, 3 for 16-bit Data Size
- 32-bits addressing capability

Built-in PCI IDE Controller
- Supports Ultra DMA Mode Transfers up to Mode 6
- Timing (100/133 Mbytes/sec)
- Supports 48-bit LBA (Large Disk), hard drive larger than 137 GB
- Supports PIO Modes up to Mode 4 Timings, and Multiword DMA Mode 0,1,2 with Independent Timing of up to 4 Drives
- Dedicated Pins of ATA Interface for each Channel
- Supports Tri-state IDE Signals for Swap Bay

USB Interface
- One EHCI USB 2.0 and Three OHCI USB 1.1 Host
- Controllers for supporting up to eight USB Ports
- Supports HS (480Mbits/sec), FS (12Mbits/sec) and
- LS (1.5Mbits/sec) data transfer rate
- Supports system wake up from S1 – S4
- Supports Legacy Keyboard and Mouse emulation in
- DOS environment

Low Pin Count (LPC Rev1.1) Interface
- Supports LPC interface for legacy devices
- Supports 2 LPC Master and 7 DMA devices
- Supports TPM (Trusted Platform Module)

Audio System
- Fully Plug-and-Play PCI controller and software
- PCI 2.3 compliant bus master optimized for multiple
- stream operation

1/10/100 Mb/s Fast Ethernet MAC
- Provide the 1/10/100 Mbps Media
- Access Control (MAC) controller for the best solution of the phone-line/Ethernet LAN connectivity.
- Compliant with IEEE 802.3u 100BASE-TX, IEEE 802.3 10BASE-T standard

Serial ATA Host Controller
- Supports SATA 1.0 (High Speed Serialized AT Attachment, Revision 1.0), 1.5 Gb/s data rate.
- Supports Host adapter register interface (SCR, Status and Control Registers).
- Independent DMA operation on two ports

Security
- Supports TPM device revision 1.2

PC 2001 Compliance

Package
- 35 x 35 millimeter, 748-ball BGA package.

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