

SILICON VALLEY TECHNOLOGY

A TECHNOLOGY SOLUTIONS PROVIDER

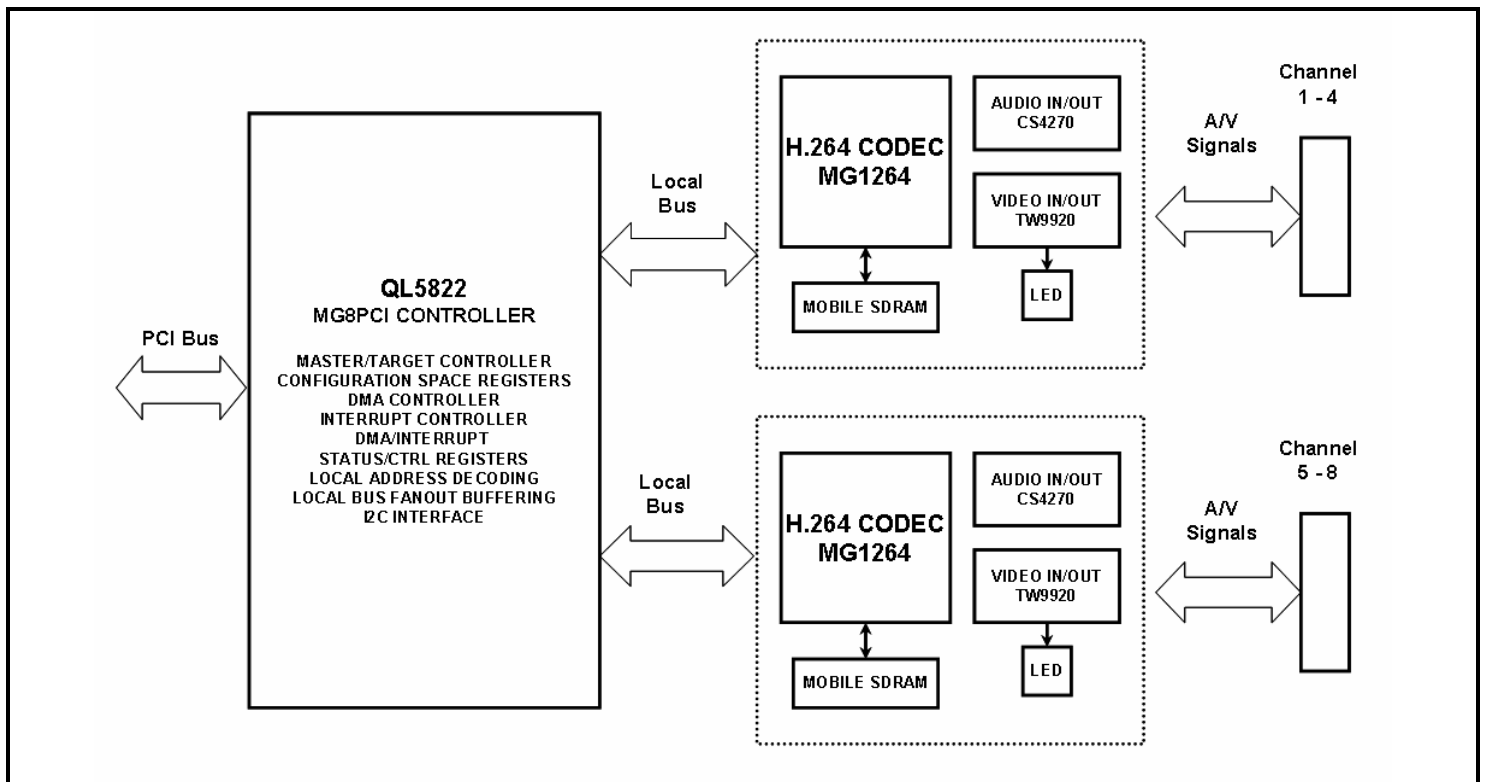
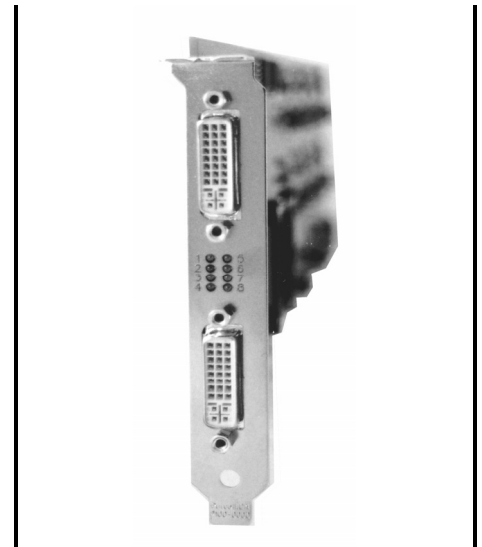
Multi-Channel MPEG-4 AVC CODEC PCI Card

PRELIMINARY DATA BRIEF

DESCRIPTION

Demonstrating its continued leadership in advanced audio/video CODEC technology, Silicon Valley Technology introduces the first fully integrated multi-channel H.264 A/V PCI card for standard definition audio/video applications, employing the MG1264 advanced low-bit rate audio/video CODEC. The MG8PCI is a eight-channel audio/video CODEC PCI card with full duplex encoding and decoding capability and is used in a variety of multimedia audio/video applications.

The MG8PCI Card is a self-contained evaluation and development platform for the MG1264 low-power H.264/AAC codec. It includes a fully integrated host PCI controller and supports the Linux 2.6 OS which is capable of running demanding real-world multi-channel audio/video applications. Provided is a complete hardware and software development platform including development board, compiler, debugger, utilities, and libraries, along with source code and documentation.



Target Applications

- Real-time MPEG-4 AVC audio/video capture
- Frame accurate video editing
- Video conferencing
- VCD, SVCD and DVD publishing
- Time shift recording
- Video capture and streaming to network
- Digital video surveillance
- VOD, IPTV and mobile broadcast

MG8PCI FEATURES

Video and Audio:
Video Channels: 8 Independent Composite I/O Channels (via break-out cable assembly)
Audio Channels: 8 Independent un-balanced stereo Channels (via break-out cable assembly)
Connector Type: BNC Cable Assembly /w DVI type I/O Connector (2)
Video Standard: NTSC / PAL
Encoder Formats: H.264 AVC Baseline Compressed Video ; Uncompressed Video (CIR656)
Image Size: Programmable per channel , 32x24 to 720x480 (NTSC) 32x24 to 720x576 (PAL)
Video Capture Performance: Up to 720x480 at 30fps (NTSC) per channel , Up to 720x576 at 25fps (PAL) per channel
Audio &Video Synchronization: Fully-synchronized independent audio and video channels

Physical Characteristics:
Power Consumption:
Dimensions: Full length PCI Card
Environment:
• Operating: 5° to 40°C
• Storage: -5 to 45°C
Humidity: 90% HR
System Requirements:
CPU: Single 3.0 GHz
PCI: 33/66MHz 32-bit 3.3V PCI slot
System Memory: 1 GB SDRAM
Other Requirements:
CD/DVD-ROM , 80 GB HDD, 10/100 Ethernet , USB 2.0 , Video Graphics , Linux 2.6 , NTSC / PAL Monitor

Part Numbers / Revision

Part Number	Revision	Description
MG8PCI_SDK	R0.0	8 Channel AVC PCI Card / Development Support Package

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