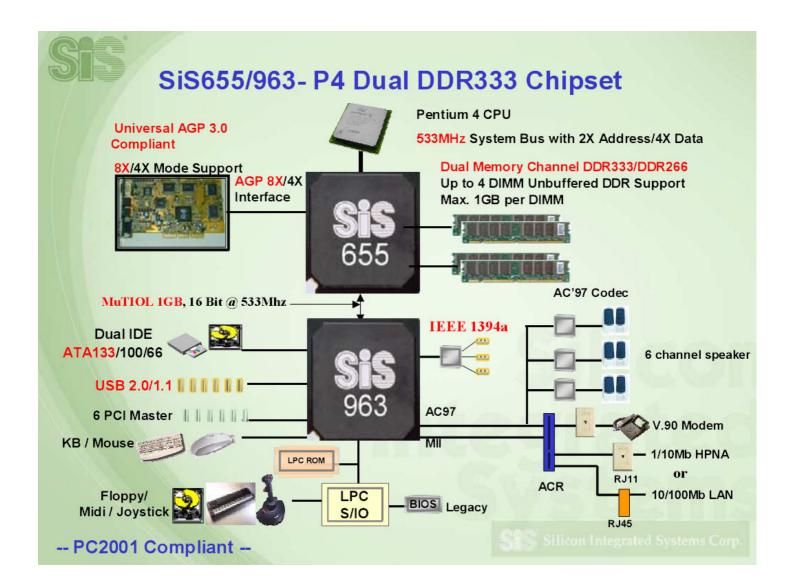




Agenda

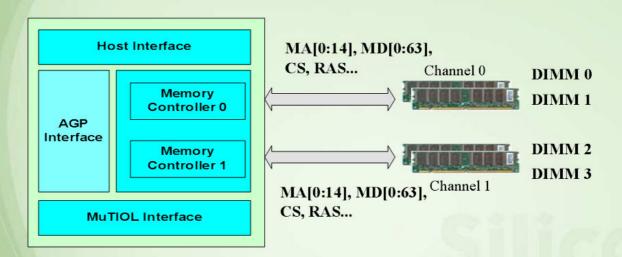
- System Architecture and Key Feature
- Dual Memory Controller
- USB2.0 and IEEE1394a
- Advantages of SiS655

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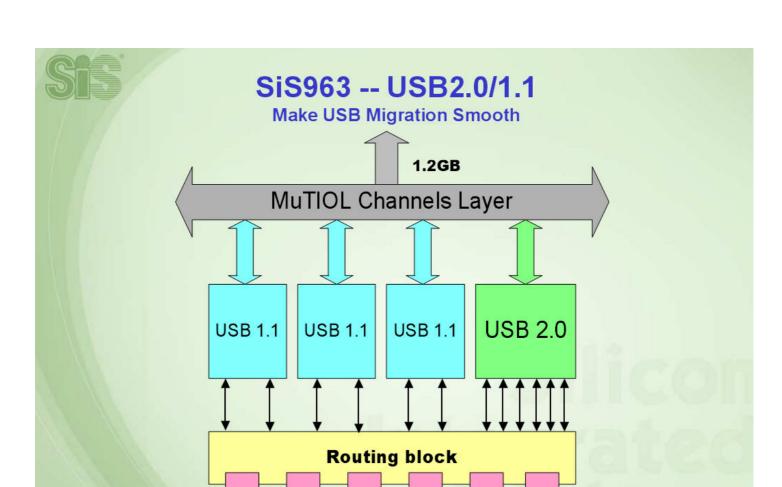


Dual Memory Controller Overview- SiS655



- Independent MA, MD, and control signals for each channel
- Support 128bit mode, Concurrent Dual64bit mode and Legacy single 64 bit mode.
- Auto Configuration for flexible DIMM combination Support

Sississis Silicon Integrated Systems Corp.



Dynamic Switching to USB1.1 or USB2.0, depends on Devices

Port 4

Port 0

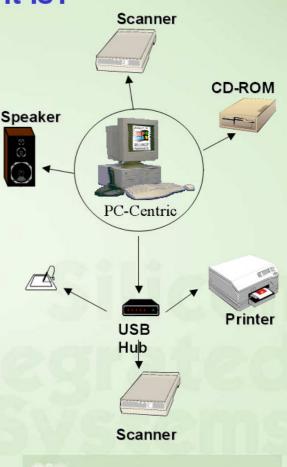
Port 1

Port 2



USB2.0 - What it is?

- Support PC-centric connection to High Speed and High Performance PC Peripherals.
 - Support High Speed Device @480 Mb/s
 bandwidth = 40 times faster than USB1.1
- Fully Backward Compatible w/ USB 1.1
 - Support USB 1.1 Full Speed Devices (12Mb/s)
 and USB 1.1 Low Speed Devices (1.5Mb/s)
- Working w/ the existing USB 1.1 connectors and cables
 - No new connectors and cables are required.





What USB2.0 Devices Available?

USB 2.0 CD-ROM/DVD-ROM



Addonics Tech. ACOM

USB 2.0 CD-R/RW



Plextor, SONY Fujitsu, Yahama..

USB 2.0 CCD/Camera



AME, Opteon



USB 2.0 MO Driver



Fujitsu..

USB 2.0 Scanner



Epson, Microtek

USB 2.0 HDD



USB 2.0 Flash card Reader



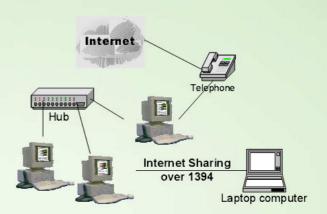
Datafab System...

Maxtor, Fujitsu..

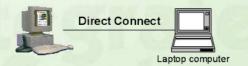
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1394 TCP/IP Networking - IP over 1394

- With "IP over 1394" Support to Enabling Internet Access Sharing among Networked PCs
- With "IP over 1394" Support to Direct Connect PCs by 1394 Ports w/o Additional Hardware and Drivers
- Native "IP over 1394" Support in Windows Me and Windows XP



or



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What 1394a Devices Available?

PC Peripherals and Consumer Electronics

1394 HDD



IOMEGA, LaCie VST Tech. ..

1394 DV/D8



SONY, JVC, Sharp Panasonic, Canon

1394 MO



Fujitsu



1394 MD Recorder



Kenwood

1394 Scanner



Epson, UMAX..



1394 CD-R/RW



SONY, IOMEGA



The Advantages of SiS655

Host Interface

- Support Intel Pentium 4 CPU
- 533MHz system bus w/ 2X Address and 4X Data Rate and bandwidth of up to 4.2GB/s
- 12 Outstanding Transactions support
- Quasi-Synchronous/Asynchronous Host/DRAM Timing support
- Support 2M/4M/8M/16M TSEG SMRAM
- Support Dynamic Bus Inversion.

DRAM Controller

- Integrated Dual Memory Controller w/ 128bit mode and 64bitx2 concurrent access mode support
- DDR333/DDR266Support
- Support Up to 4 un-buffer Double-sided DIMM
- Max. 1GB per DIMM with 512Mb tech.

AGP 3.0 and AGP2.0 Compliant

- 8X/4X/2X Mode Support
- Fast Write Support
- Support 1.5V interface only
- SiS MuTIOL Technology Delivering 1GB/sec Bandwidth



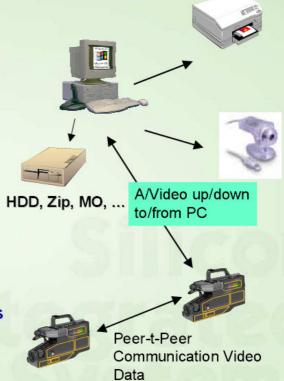
SiS963 MuTIOL Media IO

- USB 2.0 /1.1 Support
 - Integrated Three Independent Open HCI Controllers includes Root Hub w/ two USB 1.1 ports each
 - Integrated One EHCI Controller includes Root Hub w/six USB 2.0 ports
 - Support a maximum of 6 USB Ports. Dynamic connection to USB 1.1 or USB 2.0.
- IEEE 1394a Controller Integrated
 - OHCI 1394a 1.1 compliance
 - Up to three 1394a ports support w/ external 1394a Phy.
- IDE Controller
 - Dual Independent IDE Channels with ATA133/100/66 support
- Integrated MAC Controller with Standard MII Interface
- Integrated Audio Controller w/ AC97 2.2 Compliance Interface
 - Support 5.1 channel of Audio output and V.90 HSP Modem
 - Support 4 Separate SDATAIN Pins for 3 x 2 ch Audio Codec + 1 Modem Codec
- PCI 2.2 Compliant
 - Support up to 6 PCI Masters
- LPC Interface 1.0 Compliance
- ACPI 1.0b Compliance
- I/O APIC Support
- PC2001 Compliance



IEEE1394a--What it is?

- Addressing Interconnection of Both PC Peripherals and Consumer Electronics.
- High Speed Bus Operating at data transfer rate of 100Mbps to 400 Mbps, depending on cable type
- Support Peer-to-peer communication
- Support TCP/IP Networking Capability
- Support Isochronous and asynchronous data transfer



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