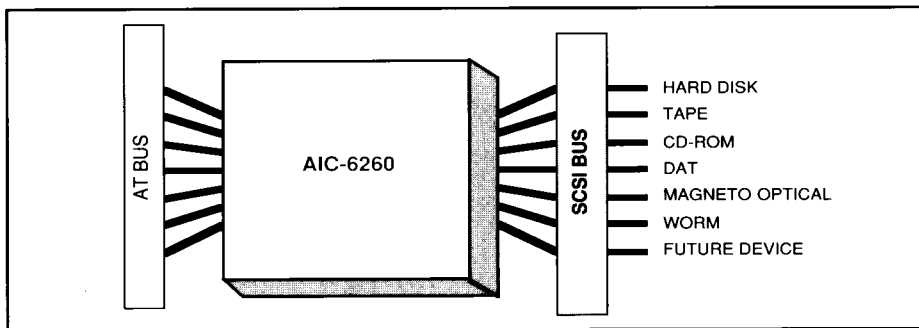


Single-Chip AT-to-SCSI I/O Processor

AIC-6260AL: 68-pin PLCC

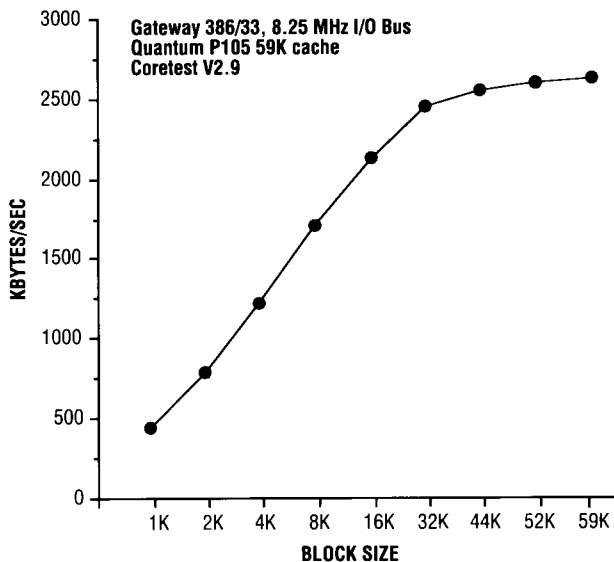
AIC-6260AQ: 80-pin QFP

SCSI Designer: AIC-6260 Design-In Kit



Single-Chip SCSI

The AIC-6260 opens the world of SCSI to AT motherboards by providing unmatched connectivity and high performance. A complete single-chip SCSI solution, the AIC-6260, features comprehensive software and built-in power management. In addition to high-performance operation, the AIC-6260 is completely compatible with the SCSI-2 standard. BIOS integration is made possible through a combined effort by Adaptec and major BIOS vendors such as Phoenix and Award. Incorporating the AIC-6260 onto the PC motherboard is as easy as connecting the AT and SCSI buses directly to the AIC-6260.



Performance Benchmark

Features

- Single-chip AT-to-SCSI host adapter
- Low cost connectivity to multiple SCSI peripherals
- Compatible with SCSI-2 and Common Command Set (CCS)
- System BIOS available
- 16-bit data transfers

SCSI Connectivity

- Software drivers available for: hard disk, removable disk, magneto optical (M/O), tape, CD-ROM, digital audio tape (DAT)
- Comprehensive software support: DOS, OS/2, NetWare 286 and 386, SCO UNIX and ISC UNIX
- Supports up to seven SCSI devices including Gbyte drives
- Software support for up to eight multitasking I/O processes
- Supports asynchronous and synchronous SCSI devices

Compatibility

- SCSI-2 compatible
- IBM AT-bus compatible
- Proven compatibility with the widest range of SCSI peripherals
- Fully compatible with the AHA-1520/1522 family of software drivers

Technical Specifications

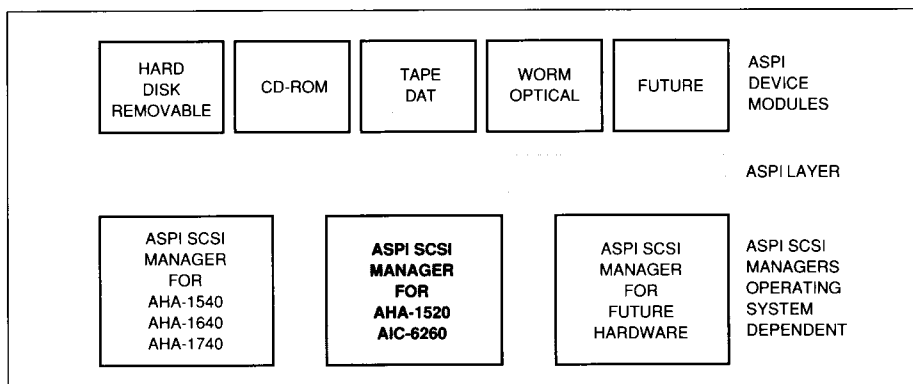
Process Technology:	1.2 μ m CMOS
Operating Temperature Range:	0°C to 70°C
Operating Voltage Range:	4.75V to 5.25V
Power Consumption:	30 mA (150 mW) operating @ 20 MHz with external clock 5 mA (25 mW) power-down sleep mode @ 20 MHz with external clock
Host Bus:	ISA (IBM AT-compatible)
Host Data Transfer Modes:	8/16-bit PIO or 8-bit DMA
Host Transfer Rate:	Up to 10 MBytes/sec burst
Host Data Buffering:	128-byte FIFO
AT Bus I/O Address Mapping:	340H or 140H
Clock Frequency:	Up to 20 MHz internal or external clock
SCSI Bus Transfer Modes:	8-bit asynchronous or synchronous
SCSI Transfer Rate:	5 MBytes/sec synchronous
SCSI Bus Drivers:	48 mA single-ended

BIOS Support

- ASW-B626 S2 system BIOS support available to provide boot capability, low-level format, power management and support for up to two hard disk drives under DOS without additional software
- The AIC-6260 BIOS is customer configurable, so you can easily create exactly what you need

Software Support

- ASW-1210 DOS ASPI manager with multitasking support for up to seven SCSI devices (hard disk, removable disk, M/O, tape, CD-ROM, and DAT)
- ASW-1220 OS/2 ASPI/2 manager — LADDR compatible
- ASW-1240 Novell NetWare 286/386 software manager
- ASW-1250 SCO UNIX ASPI manager



Advanced SCSI Programming Interface (ASPI) combined with Adaptec hardware offers a complete solution.

Additional Software Support

- ASW-310 ASPI Sytos Plus device module for DOS tape and DAT backup
- ASW-410 ASPI CD-ROM device driver for DOS

Design-In Support

The SCSI Designer is the AIC-6260 design-in kit. It has everything that is needed to evaluate and design in the AIC-6260. This kit includes:

- AHA-1520 (evaluation board)
- AIC-6260AL (2)
- AIC-6260AQ (2)
- AHA-1520 Installation Guide
- ASW-1210 DOS Manager
- ASW-1240 Novell Manager
- ASW-1250 UNIX Manager
- ASW-B626 S2 Configurable BIOS
- AIC-6260 Design-In Handbook
- AIC-6260 Data Book
- SCSI Connector Samples
- Design-In Schematic
- SCSI Cable
- ASPI Flyer
- Compatibility Report
- Reliability Report
- Application Notes

Exceptional Price/Performance Value

- High performance
 - Up to 10 MBytes/sec burst transfers on host bus
 - 5 MBytes/sec synchronous transfers on SCSI bus
- Programmed I/O leveraging the unclaimed power of 386 SX, 386, and 486 processors
- Low SCSI overhead
- Disconnect/Reconnect — SCSI feature that frees the host to perform other tasks while a SCSI device is busy
- 128-byte data FIFO buffer

adaptec

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