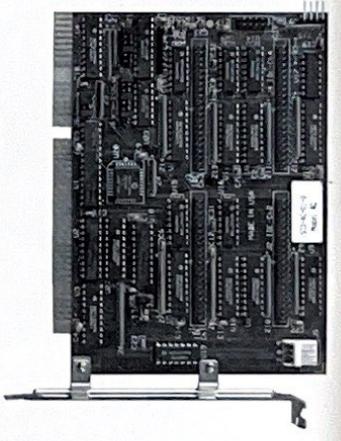


**GSI Model 32**  
16-bit Multi-Port IDE, Floppy, Tape  
& I/O Accelerator Board

The Model 32 provides the platform for high performance computing. Perfect for power users, the Model 32 integrates an accelerated IDE and floppy interface with two 16550 serial ports and one bi-directional parallel port. The Model 32 increases the data transfer rates of IDE hard drives up to 80%! A total of ten (10) devices can be run off the Model 32. Two Model 32s in a system could support four IDE, four floppy, one tape drive, four serial devices and two parallel devices. Co-residing with other disk controllers, the Model 32 also allows users to upgrade existing systems to today's technology!

**GSI Model 32 Features:**

- ◆ 16-bit ISA Accelerated IDE channel (supports 2 IDE devices)
- ◆ Increases IDE data transfer rates up to 80%!
- ◆ Intelligent IDE interface "Auto-Senses" drive parameters
- ◆ Supports up to four floppy drives -- including 2.88MB drives
- ◆ Doubles the speed of 250MB (QIC-80) tape drives
- ◆ Dual 16550 serial ports for fast, reliable communications
- ◆ One Bi-directional parallel port
- ◆ Supports large IDE drive sizes above 528MB
- ◆ Co-resides with other disk drive controller boards
- ◆ Uses *Flash* BIOS -- no drivers or CMOS support required!
- ◆ Able to re-assign floppy drive letters from keyboard
- ◆ Compatible with Windows 3.x, OS/2 2.x & Novell
- ◆ Serial port IRQ levels available are 3, 4, 9 & 10 (COM1-4)
- ◆ Parallel port IRQ levels available are 7, 5 & 9 (LPT1, 2 or 3)
- ◆ Any or all ports can be disabled
- ◆ IDE IRQ levels available are 14 & 15
- ◆ Special BIOS support for SyQuest IDE removable drives!
- ◆ FCC Class B Approved



**GSI Model 4C**  
16-bit Four-Channel, Eight-IDE  
Accelerator Board

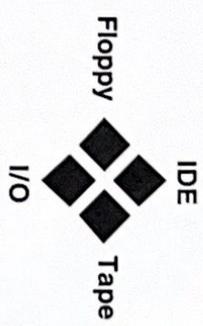
The Model 4C brings "multi-channeling" IDE to the desktop and server market. Supporting up to eight (8) IDE devices on four (4) separate channels, the Model 4C is perfect for duplexing and mirroring of hard drives in networks. With an onboard *Flash* BIOS to provide intelligent IDE support, installation of multiple IDE devices is easier than ever before. The Model 4C *Flash* BIOS has an "Auto-Prep" feature to optionally FDISK and FORMAT a new IDE hard drive in seconds. Large IDE hard drives will be formatted in single partition sizes up to 8.4GB!

**GSI Model 4C Features:**

- ◆ 16-bit ISA Accelerator Board
- ◆ Four Accelerated IDE channels (supports eight IDE devices)
- ◆ Increases IDE data transfer rates up to 80%!
- ◆ Intelligent IDE interface "Auto-Senses" drive parameters
- ◆ "Auto-Prep" feature optionally FDISKs new drives
- ◆ Supports large IDE drive sizes above 528MB
- ◆ Co-resides with other disk drive controller boards
- ◆ IDE Channel 1 uses IRQ 14
- ◆ IDE Channel 2 uses IRQs 15 or 10
- ◆ IDE Channel 3 uses IRQs 12 or 11
- ◆ IDE Channel 4 uses IRQs 10 or 9
- ◆ Any or all IDE Channels can be disabled
- ◆ Uses *Flash* BIOS -- no drivers or CMOS support required!
- ◆ Supports IDE-ISA DMA transfers -- DMA channels 5, 6 & 7
- ◆ Includes special power cable to drive all eight devices
- ◆ Compatible with Windows 3.x, OS/2 2.x & Novell
- ◆ Perfect for duplexing or mirroring IDE hard drives
- ◆ Special BIOS support for SyQuest IDE removable drives!



**Intelligent  
Accelerator  
Boards**



- ◆ Increase IDE data transfer rates up to 80%
- ◆ Run 250MB tape drives at doublespeed, cutting backup time in half!
- ◆ Support multiple IDE devices (up to 8!)
- ◆ IDE duplexing & mirroring
- ◆ Operate 14.4kbps modems at full speed
- ◆ Support large IDE drive sizes, up to 8.4GB
- ◆ Support four floppy drives, including 2.88MB
- ◆ Add more IDE and floppy drives to systems

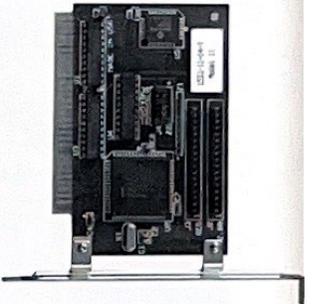
**Make the Intelligent Choice --**

Function	GSI Model: 11	18	21	32	4C
Accelerates IDE hard drives	✓	✓	✓	✓	✓
Cuts 250MB backup time in half	✓	✓	✓	✓	✓
Supports large IDE drive sizes	✓	✓	✓	✓	✓
Co-resides with other controllers	✓	✓	✓	✓	✓
Supports four floppy drives	✓	✓	✓	✓	✓
Supports 2.88MB floppy drives	✓	✓	✓	✓	✓
Intelligent IDE interface	✓	✓	✓	✓	✓
Allows mirroring & duplexing of IDE	✓	✓	✓	✓	✓
High speed modem support (16550)	✓	✓	✓	✓	✓
Bi-directional parallel port	✓	✓	✓	✓	✓
Supports up to eight IDE devices	✓	✓	✓	✓	✓

**GSI provides the solution.**

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### GSI Model 11 8-bit Four-Floppy & 250MB Tape Accelerator Board

The Model 11 floppy disk controller is the perfect floppy and/or 250MB (QIC-80) tape upgrade peripheral. The Model 11 can operate as the only floppy controller in the system or co-reside with other disk controllers, adding a third and/or fourth floppy disk drive. As an added benefit, the Model 11 will double the backup and restore speed of 250MB tape backup drives. The Model 11 supports the new 2.88MB floppy drives and has complete floppy control, allowing the user to re-assign floppy drive letters from the keyboard! No special device drivers or system CMOS support is required for the Model 11.

#### GSI Model 11 Features:

- ◆ High-speed floppy interface supports up to four floppy drives
- ◆ Doubles the speed of 250MB (QIC-80) tape drives
- ◆ Fully supports 2.88MB floppy disk drives
- ◆ Supports "Media-Sensing" capabilities of 2.88MB floppies
- ◆ Co-resides with other disk drive controller boards
- ◆ Uses *Flash* BIOS -- no drivers or CMOS support required!
- ◆ Able to re-assign floppy drive letters from keyboard
- ◆ Compatible with DOS 3.3 and later, Windows 3.x & OS/2 2.x
- ◆ *Flash* BIOS provides easy upgrade path
- ◆ Four *Flash* BIOS address selections available
- ◆ Uses I/O Address 3F0-3F7 for Primary operation and I/O Address 370-377 for Secondary operation
- ◆ Supports 14 different types of floppy drives including:  
3.5" format: 720KB, 1.44MB, 2.88MB, 300/360rpm & 600rpm  
5.25" format: 360KB, 1.2MB, 300/360rpm & 600rpm



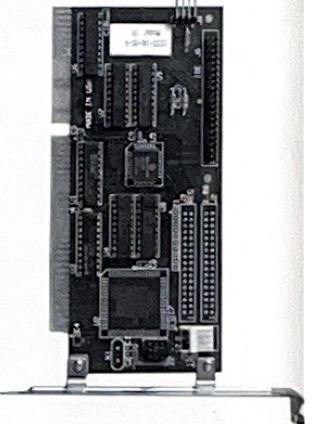
ISA-Compliant

GSI Intelligent IDE Accelerator boards comply with two new industry standards: Fast ATA and Enhanced IDE. They support high-capacity IDE drives, IDE (ATAP), CD-ROMs and accelerate IDE hard drives by using an onboard BIOS to invoke the IDE Read/Write Multiple commands. GSI Accelerators are compatible with Mode 3 IDE drives, running them at their maximum ISA speed.

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\*Requires BIOS version 3.01 or later

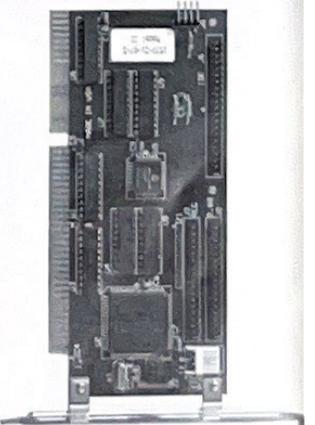


### GSI Model 18 16-bit Primary or Secondary IDE Accelerator Board

The Model 18 IDE Accelerator Board is the easiest and fastest way to add an IDE hard drive to a system. Perfect for upgrading older systems and Novell certified for duplexing and mirroring IDE hard drives. Operating as a primary or secondary (co-resident) adapter and increasing the hard drive throughput, the Model 18 automatically installs new IDE drives like never before. The Model 18 *Flash* BIOS has an "Auto-Prep" feature to optionally FDISK and FORMAT a new IDE hard drive in seconds. Large IDE hard drives will be formatted in single partition sizes up to 8.4GB!

#### GSI Model 18 Features:

- ◆ 16-bit ISA Accelerated IDE channel (supports 2 IDE devices)
- ◆ Increases IDE data transfer rates up to 80%!
- ◆ Intelligent IDE interface "Auto-Senses" drive parameters
- ◆ "Auto-Prep" feature optionally FDISK's new drives
- ◆ Supports large IDE drive sizes above 528MB
- ◆ Co-resides with other disk drive controller boards
- ◆ Uses *Flash* BIOS -- no drivers or CMOS support required!
- ◆ Has auxiliary power connector for extra port source
- ◆ Special BIOS support for SYQUEST IDE removable drives!
- ◆ Compatible with Windows 3.x, OS/2 2.x & DOS
- ◆ Novell NetWare Tested & Approved
- ◆ *Flash* BIOS provides easy upgrade path
- ◆ IDE IRQ levels available are 14, 15
- ◆ Tested & recommended by Micropolis, Fujitsu, Maxtor, Seagate, Western Digital, Quantum and Conner



### GSI Model 21 16-bit IDE, Floppy & 250MB Tape Accelerator Board

The Model 21 supports seven peripherals, all at accelerated speeds. The Model 21 integrates an accelerated IDE channel with a high speed floppy and tape interface. The Model 21 has an onboard *Flash* BIOS to intelligently identify higher performance IDE drives and accelerate them by fine tuning drive & controller interaction. This technique achieves the highest performance from IDE drives and makes installation easy. In addition to faster disk performance, the Model 21 will also double the speed of 250MB (QIC-80) tape backup drives.

#### GSI Model 21 Features:

- ◆ 16-bit ISA Accelerated IDE channel (supports 2 IDE devices)
- ◆ Increases IDE data transfer rates up to 80%!
- ◆ Intelligent IDE interface "Auto-Senses" drive parameters
- ◆ High-speed floppy interface supports up to four floppy drives
- ◆ Doubles the speed of 250MB (QIC-80) tape drives
- ◆ Supports large IDE drive sizes above 528MB\*
- ◆ Fully supports 2.88MB floppy disk drives
- ◆ Co-resides with other disk drive controller boards\*
- ◆ Uses *Flash* BIOS -- no drivers or CMOS support required!
- ◆ Able to re-assign floppy drive letters from keyboard
- ◆ Compatible with Windows 3.x, OS/2 2.x & DOS
- ◆ Novell NetWare Tested & Approved
- ◆ *Flash* BIOS provides easy upgrade path
- ◆ Special BIOS support for SYQUEST IDE removable drives!
- ◆ IDE IRQ levels available are 14, 15\*

