GT-675

Pentium III Socket 370 ISA bus half size CPU Card

Introduction

The GT-675 is a full featured, industrialized, ISA bus single board computer with a high-frequency Intel Pentium IIIR level processor by a socket370. The 440BX AGP set built in to the single board computer is the most efficient and reliable way to upgrade existing ISA systems to Pentium III technology.

The GT-675 single board computer is further enhanced by the CHIPS 69000 Graphics Accelerator to deliver the most advanced graphics and video support available. The 69000 supports a wide variety of monochrome and color Single Panel, Single-Drive (SS) and Dual-Panel, Dual-Drive (DD), standard and high resolution, passive STN and active matrix TFT LCD, and EL panels. With HiQColor technology, up to 256 gray scales is supported on passive STN LCDs. Up to 16.7M different colors can be displayed on passive STN LCD and up to 16.7M colors on 24 bit active matrix LCD. The on-board Intel 82559

LAN chipset with the W.O.L. (wake-on-LAN) provides a fast networking environment for tough application.

The GT-675 combines the many features needed for system operation into one compact single board computer, including Ultra/DMA IDE rive controllers, high performance serial ports, enhanced parallel port, and the latest BIOS features. Additional enhancements to the GT-675 include two USB ports and a programmable watchdog timer. Two dual in-line memory module (DIMM) sockets support up to 512MB of synchronous DRAM (SDRAM) memory.

The 440BX AGPset in the GT-675 incorporates the latest microprocessor technology from Intel to provide the increased bandwidth needed to operate your system bus at speeds up to 100MHz. The 440BX AGPset is a two-chip set comprised of the Intel 82443BX (PAC) host bridge and the Intel 82371EB (PIIX4E) I/O subsystem. In addition, it provides USB host interface support for two USB ports and a System Management Bus (SMB) with support for DIMM Serial PD.

Specification

System Memory 16MB to 512MB maximum Supports 2 banks 168-pin DIMM socket PC-10 Compatible Disk-on-chip Socket for M-system disk on chip System BIOS AWARD BIOS System Chipset 82443BX Host Bridge Controller 82371EB PCI/ISA/IDE Accelerator Supports 66/100 MHz FSB VGA Chipset CAT 69000 VGA Memory VGA Resolution Supports Flat-panel resolutions up to 640x480, 800x600, 1024x768 Supports non-interlace CRT monitors, 1024x768 64K Colors Ethernet Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus A 16-bit PC104 connector for expansion modules Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Super I/O WINBOND 83977 USB Dual USB connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector One 5-pin Mini_Din connectors are located on the mounting bracket for keyboard & mouse One Single 5-pin header connector for external keyboard interface Watchdog Timer Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage Operating Temperature Operating Temperature 20 to 140° F (0° to 60°C) Board Size 185mm x 122mm	CPU	Zip Socket 370 to support different level CPU Up to Intel Pentium III 800MHz
Disk-on-chip Socket for M-system disk on chip System BIOS AWARD BIOS System Chipset 82443BX Host Bridge Controller 82371EB PCI/ISA/IDE Accelerator Supports 66/100 MHz FSB VGA Chipset C&T 69000 VGA Memory VGA Resolution Supports Flat-panel resolutions up to 640x480, 800x600, 1024x768 Supports non-interlace CRT monitors, 1024x768 64K Colors Ethernet Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus A 16-bit PC104 connector for expansion modules Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Two RS232, 16C550 compatible, FIFO buffer Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x2 pin header for Fat-panel Keyboard & Mouse Connector Watchdog Timer Can generate a system RESET, timer interval is 0-63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 200mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	System Memory	16MB to 512MB maximum
System BIOS		Supports 2 banks 168-pin DIMM socket
System BIOS System Chipset 82443BX Host Bridge Controller 82371EB PCI/ISA/IDE Accelerator Supports 66/100 MHz FSB VGA Chipset VGA Memory VGA Resolution Supports Fiat-panel resolutions up to 640x480, 800x600, 1024x768 Supports Intel resolutions up to 640x480, 800x600, 1024x768 Supports non-interlace CRT monitors, 1024x768 64K Colors Ethernet Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &for 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Serial Port Serial Port Two RS232, 16C550 compatible, FIFO buffer Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header connector for external keyboard interface Watchdog Timer Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage Power Supply Voltage Operating Temperature 32° to 140° F (0° to 60°C)		PC-100 Compatible
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82371EB PCI/ISA/IDE Accelerator Supports 66/100 MHz FSB VGA Chipset VGA Memory VB SDRAM for the graphics/video frame buffer VGA Resolution Supports Flat-panel resolutions up to 640x480, 800x600, 1024x768 Supports non-interlace CRT monitors, 1024x768 64K Colors Ethernet Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus A 16-bit PC104 connector for expansion modules Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Two RS232, 16C550 compatible, FIFO buffer Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 8-18A +12V maximum current draw: 8-18A +12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	System BIOS	AWARD BIOS
Supports 66/100 MHz FSB VGA Chipset C&T 69000 VGA Memory VGA Resolution Supports Flat-panel resolutions up to 640x480, 800x600, 1024x768 Supports non-interlace CRT monitors, 1024x768 64K Colors Ethernet Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus A 16-bit PC104 connector for expansion modules Floppy Disk Interface Unce enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Serial Port Super I/O USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for external keyboard interface Keyboard & Mouse Connector One DB-15 VGA connectors are located on the mounting bracket for keyboard & mouse Connector Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock Power Supply Voltage Power Supply Voltage Operating Temperature 32° to 140° F (0° to 60°C)	System Chipset	82443BX Host Bridge Controller
VGA Chipset VGA Memory VGA Resolution Supports Flat-panel resolutions up to 640x480, 800x600, 1024x768 Supports non-interlace CRT monitors, 1024x768 64K Colors Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Serial Port Serial Port Super I/O WINBOND 83977 USB Dual USB connector at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for external keyboard interface Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage Operating Temperature 32° to 140° F (0° to 60°C)		
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Supports non-interlace CRT monitors, 1024x768 64K Colors Ethernet Intel 82559 with wake-on-lan function Bus Type ISA bus - 98 pin for 16 bits ISA bus Expansion Bus A 16-bit PC104 connector for expansion modules Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Two RS232, 16C550 compatible, FIFO buffer Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector One Single 5-pin header connector for external keyboard interface Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)		
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Expansion Bus Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25" IDE HDD Interface One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector Watchdog Timer Clock Watchdog Timer Real Time Clock SGS M48186 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage Operating Temperature 32° to 140° F (0° to 60°C)		
Floppy Disk Interface Supports up to two floppy disk drivers 3.5" &/or 5.25"	Bus Type	ISA bus - 98 pin for 16 bits ISA bus
One enhanced IDE interface, supports 2 IDE devices PIO Mode 4 and Ultra DMA/33/66 supported		
PIO Mode 4 and Ultra DMA/33/66 supported Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Two RS232, 16C550 compatible, FIFO buffer Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector One Single 5-pin header connector for external keyboard interface Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Floppy Disk Interface	Supports up to two floppy disk drivers 3.5" &/or 5.25"
Parallel Port Enhanced bi-directional EPP/ECP/SPP parallel port Serial Port Two RS232, 16C550 compatible, FIFO buffer Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector Two 6-pin Mini_Din connectors are located on the mounting bracket for keyboard & mouse One Single 5-pin header connector for external keyboard interface Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 8-18A +12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	IDE HDD Interface	One enhanced IDE interface, supports 2 IDE devices
Serial Port Super I/O WINBOND 83977 USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector Watchdog Timer Con generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage FVV typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature One DB-15 VGA connector for CRT monitor CRT monitor One 2x22 pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse One Single 5-pin header connector for external keyboard interface FV seyboard & mouse FV sey		PIO Mode 4 and Ultra DMA/33/66 supported
Super I/O USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector Watchdog Timer Real Time Clock Power Supply Voltage Power Supply Voltage One Single 5-pin header connector for external keyboard interface ### Connector ### Clock ### Clock ### Connector ### Clock ### Connector ### Clock ### Can generate a system RESET, timer interval is 0~63sec (14 level) ### SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention ### Power Supply Voltage #### Connector ### Con	Parallel Port	Enhanced bi-directional EPP/ECP/SPP parallel port
USB Dual USB connectors at rear panel via separate cable and bracket assembly (optional) VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Keyboard & Mouse Connector Watchdog Timer Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature Dual USB connectors at rear panel via separate cable and bracket assembly (optional) CRT monitor One 2x22 pin header for Fat-panel Two 6-pin Mini_Din connectors are located on the mounting bracket for keyboard & mouse One Single 5-pin header connector for external keyboard interface Can generate a system RESET, timer interval is 0~63sec (14 level) SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 200mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Serial Port	Two RS232, 16C550 compatible, FIFO buffer
VGA Connector One DB-15 VGA connector for CRT monitor One 2x22 pin header for Fat-panel Two 6-pin Mini_Din connectors are located on the mounting bracket for keyboard & mouse One Single 5-pin header connector for external keyboard interface Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Super I/O	WINBOND 83977
Connector Watchdog Timer Real Time Clock Power Supply Voltage Consumption Power Supply Voltage Consumption Consumpt		Dual USB connectors at rear panel via separate cable and bracket assembly (optional)
Keyboard & Mouse ConnectorTwo 6-pin Mini_Din connectors are located on the mounting bracket for keyboard & mouse One Single 5-pin header connector for external keyboard interfaceWatchdog TimerCan generate a system RESET, timer interval is 0~63sec (14 level)Real Time ClockSGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retentionPower Supply Voltage+5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mAOperating Temperature32° to 140° F (0° to 60°C)	VGA Connector	One DB-15 VGA connector for CRT monitor
Connector One Single 5-pin header connector for external keyboard interface Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)		One 2x22 pin header for Fat-panel
Watchdog Timer Can generate a system RESET, timer interval is 0~63sec (14 level) Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Keyboard & Mouse	Two 6-pin Mini Din connectors are located on the mounting bracket for keyboard & mouse
Real Time Clock SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM On-chip lithium battery, with 10 years data retention +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Connector	One Single 5-pin header connector for external keyboard interface
On-chip lithium battery, with 10 years data retention +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Watchdog Timer	Can generate a system RESET, timer interval is 0~63sec (14 level)
Power Supply Voltage +5V typical current draw: 6-10A +5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Real Time Clock	SGS M48T86 PCI (or compatible), 256 bytes of battery-backed RAM
+5V maximum current draw: 8-18A +12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)		On-chip lithium battery, with 10 years data retention
+12V maximum current draw: 600mA -12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)	Power Supply Voltage	+5V typical current draw: 6-10A
-12V maximum current draw: 200mA Operating Temperature 32° to 140° F (0° to 60°C)		+5V maximum current draw: 8-18A
Operating Temperature 32° to 140° F (0° to 60°C)		+12V maximum current draw: 600mA
		-12V maximum current draw: 200mA
	Operating Temperature	
	Board Size	·

Order Information

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Giantec Inc.