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GT-675P

Introduction :

The GT-675P is the PISA bus version of the model GT-675. It features the full functions, industrialized, PISA 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-675P 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 **HiQ Color** technology, up to 256 gray scales is supported on passive STN LCD. 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-675P combines the many features needed for system operation into one compact single board computer, including Ultra/DMA IDE drive controllers, high performance serial ports, enhanced parallel port, and the latest BIOS features. Additional enhancements to the GT-675P 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-675P 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.

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Specification :

- **Bus Type:**
  PISA bus

- **CPU:**
  Zip Socket 370 to support different level CPU Up to Intel Pentium III 800MHz

- **Networking:**
  Intel 82559 with wake-on-lan function

- **IDE HDD Interface:**
  One enhanced IDE interface, supports 2 IDE devices
  PIO Mode 4 and Ultra DMA/33 supported

- **System Memory:**
  16MB to 512MB maximum
  Supports 2 banks 168-pin DIMM socket
  PC-100 Compatible

- **System BIOS:**
  AWARD BIOS

- **System Chipset:**
  82443BX Host Bridge Controller
  82371EB PCI/ISA/IDE Accelerator
  Supports 66/100 MHz FSB

- **Super I/O:**
  WINBOND 83977

- **Real Time Clock:**
  SGS M48T86 PCI (or compatible)
  256 bytes of battery-backed RAM
  On-chip lithium battery
  with 10 years data retention

- **VGA Chipset:**
  C&T; 69000

- **VGA Memory:**
  2MB 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

- **Disk-on-chip:**
  Socket for M-system disk on chip

- **VGA Connector:**
  One DB-15 VGA connector for CRT
  monitor
  One 2x22 pin header for Fat-panel

- **Floppy Disk Interface:**
  Supports up to two floppy disk drives 3.5"
  &/or 5.25"

- **Parallel Port:**
  Enhanced bi-directional EPP/ECP/SPP
  parallel port

- **Serial port:**
  Two RS232, 16C550 compatible, FIFO
  buffer

- **Watchdog Timer:**
  Can generate a system RESET, timer
  interval is 0~63sec (14 level)

- **Keyboard & Mouse Connectors:**
  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

- **USB:**
  Dual USB connectors at rear panel via
  separate cable and bracket assembly
  (optional)

- **Expansion Bus:**
  A 16-bit PC104 connector for expansion
  modules

- **Power Requirement:**
  +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)

- **Board Size:**
  185mm x 122mm

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Accessory

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Ordering Information :

- Pentium III Socket 370 PISA bus half size CPU Card
- With Cable Set, User's Manual, Export Packing

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