

Introduction :

The full size GT-612 is a full featured, industrialized, PICMG single board computer with a high-frequency Intel Pentium® III, Pentium® II, or Celeron® processor that brings advanced CPU technology and processing power to the latest ISA/PCI (PICMG) applications and to older ISA systems. 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 II technology for both the performance PC market (Pentium III) and the basic PC market (Celeron).

The Pentium III, Pentium II, and Celeron processors use the PICMG form factor with a right angle Slot 1 Connector. The PICMG design contains two gold leaf edge connectors compatible with PCI and ISA connectors to allow all peripherals to interface with the processor. This lets the GT-612 take advantage of the high pin density and strict electromechanical criteria imposed on PCI and ISA connectors. The ISA bus buffer by using 48mA drivers to ensure reliable operation for backplanes with more than five ISA slots.

The GT-612 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-612 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. An internal 64-bit second level (L2) cache supports 512K memory.

The 440BX AGP set in the GT-612 incorporates the latest microprocessor technology from Intel to provide the increased bandwidth needed to operate your system bus at speeds up to 100MHz.

[Top](#)

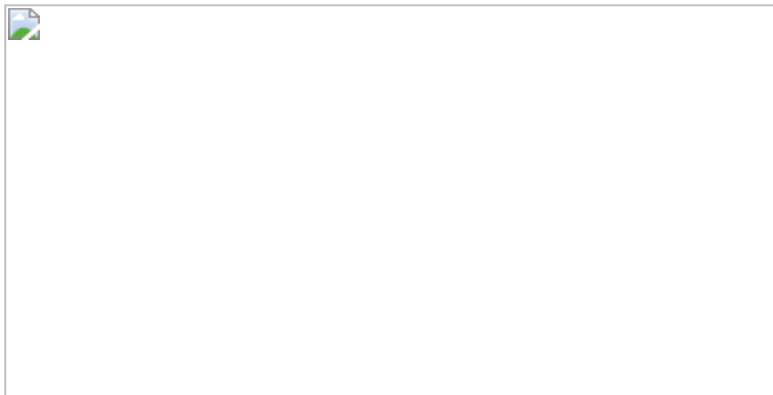
Specification :

- **Bus Type:**
PICMG Standard
- **Disk-on-chip:**
Socket for M-system disk on-chip

- **CPU:**
SLOT 1 Socket to support different level CPU
INTEL Pentium III up to 700+ MHz
- **System Memory:**
16MB up to 512MB maximum
Supports 2 banks 168-pin DIMM Sockets
PC-100 Compatible
- **System BIOS:**
AWARD BIOS
Super I/O:
WINBOND 83977
- **System Chipset:**
82443BX Host Bridge Controller
82371EB PCI/ISA/IDE Accelerator
Supports 66/100MHz FSB
- **IDE HDD Interface:**
Two Enhanced IDE interface
Supports 4 IDE devices
PIO Mode 4 and Ultra DMA/33 support
Full support for LS-120 HD floppy drive
- **Floppy Disk Interface:**
Supports 1.44MB and 720K floppy drives
- **PS/2 Keyboard Connector:**
One 6-pin mini-DIN connector at rear panel
Power supplied through +5VDC self-healing fuse
Single 5-pin header connector for external keyboard interface
- **PS/2 Mouse Connector:**
One 6-pin mini-DIN connector at rear panel
Power supplied through +5VDC self-healing fuse
- **USB:**
Dual USB connectors at rear panel via separate cable and bracket assembly (optional)
- **Serial Ports:**
Two RS232, 16C550-compatible, FIFO buffer
- **Parallel Port:**
Enhanced bi-directional EPP/ECP/SPP parallel port
- **Watchdog Timer:**
Can generate a system RESEt, timer interval is 0~63 sec (14 level)
- **Real Time Clock:**
SGS M48T86 PCI (or compatible)
On chip lithium battery with 10 years data retention.
- **Operating Temperature:**
32 to 140°F (0 to 60°C)
- **Power Requirements:**
+5V typical current draw: 6 - 8A
+5V maximum current draw: 8 - 15A
+12V maximum current draw: 600mA
-12V maximum current draw: 200mA
- **Board Size:**
337mm x 121mm

[Top](#)

Accessory



[Top](#)

Ordering Information :

- Pentium II/III Slot-I PICMG Full size CPU Card
- With Cable Set, User's Manual, Export Packing

[Top](#)

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