

AIMB-744

**Socket 478 Pentium® 4/Celeron® Industrial ATX
Motherboard with 64-bit PCI-X/DDR/VGA/Dual
Gigabit LAN/HISA (400/533/800 MHz FSB)**

Preliminary



Features

- Industrial grade motherboard with long life support
- Support up to 2 Serial-ATA devices
- Support Dual Channel DDR 400 SDRAM
- Intel® 875P chipset 400/533/800 MHz FSB
- 2 64-bit, 66MHz PCI-X slots
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- 1 AGP slot / 2 PCI-X slots / 4 PCI slots
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

Specifications

| | | | |
|------------------|--------------------------|---|---------------|
| Processor System | CPU (0.13 & 0.09 micron) | Intel Pentium 4 | Intel Celeron |
| | Max. Speed | 3.06 GHz (533 FSB) 3.2 GHz (800 FSB) * Don't support Vcore 1.75V CPU (Willamete) | 2.4 GHz |
| | L2 Cache | 512/256 KB | 128 KB |
| | Chipset BIOS | Intel® 875P + 6300ESB Award 4 Mb FWH | |
| Bus | Front Side Bus | 400/533/800 MHz | |
| | AGP | AGP3.0 with 4X and 8X, 0.8V and 1.5V, 1 slot | |
| | PCI | 32-bit/33 MHz, 4 slots | |
| | PCI-X | 64-bit/66 MHz, 2 slots | |
| Memory | Technology | Dual Channel DDR266/333/400 SDRAM | |
| | Max. Capacity | 4 GB | |
| | Socket | 184-pin DIMM x 4 | |
| Ethernet | Interface | 10/100/1000Base-T | |
| | Controller | LAN 1: Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82541GI (Gigabit) | |
| | Connector | RJ-45 x 2 | |
| SATA | Max. Data Transfer Rate | 150MB/Sec. | |
| | Channel | 2 | |
| EIDE | Mode | ATA 100/66/33 | |
| | Channel | 2 (Max. 4 devices) | |
| I/O Interface | USB | Max. 4 (USB 2.0 compliant) | |
| | Audio | 2 (LINE-Out and MIC-In) | |
| | Serial | 4 (RS-232, 2 ports and 2 onboard connectors) | |
| | Parallel | 1 (SPP/EPP/ECP) | |
| | FDD | 1 | |
| | PS/2 | 2 (Keyboard and Mouse) | |
| Watchdog Timer | Output | Interrupt, system reset | |

Your ePlatform Partner

ADVANTECH

AIMB-744

| | | | | | |
|-------------------|-------------|---|-----|-----------------------------|------|
| | Interval | Programmable 1~255 sec. | | | |
| Power Requirement | Typical | Pentium4 | | | |
| | | +5 V | -5V | +12 V | -12V |
| | | TBD | TBD | TBD | TBD |
| | | Operating | | Non-Operating | |
| Environment | Temperature | 0~60 °C (32~140F), depends on CPU's speed | | -20~70 °C (-40 ~ 158 °F) | |
| Physical | Dimensions | 304.8 x 243.8 mm (12" x 10") | | | |

Ordering Information

| Part Number | Fast Ethernet LAN | Gigabit LAN |
|-----------------|-------------------|-------------|
| AIMB-744L-00A1 | -- | -- |
| AIMB-744G-00A1 | -- | Single |
| AIMB-744G2-00A1 | -- | Dual |

Packing List

| | | |
|-------------------------------|-----|------------|
| FDD cable | X 1 | 1700340640 |
| IDE HDD cable | X 2 | 1701400452 |
| Serial ATA HDD data cable | X 2 | 1700071000 |
| Serial ATA HDD power cable | X2 | 1703150102 |
| ATX 12V power converter cable | X 1 | 170304015K |
| COM port cable kit | X 1 | 1701090401 |
| Jumper pack | X 1 | 9689000068 |
| I/O port bracket | X 1 | 1962015680 |
| Startup manual | X 1 | -- |
| Utility CD | X 1 | -- |

Accessory Options

| | |
|--|------------|
| CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis | 1759214200 |
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Block Diagram

