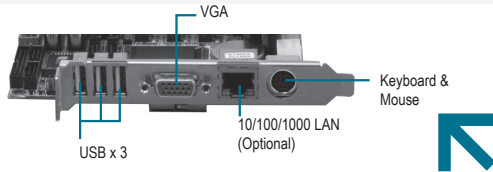
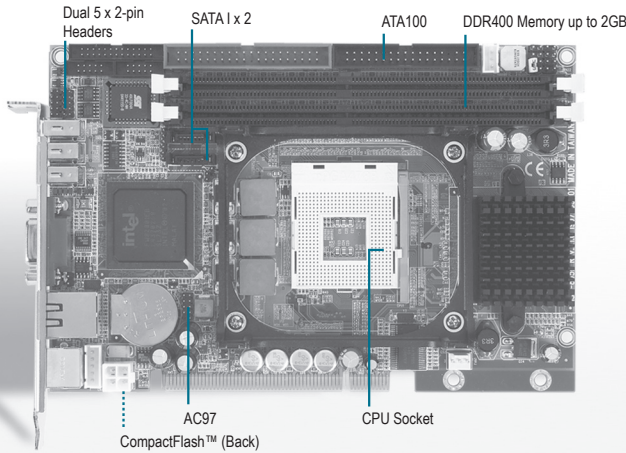


HSB-835P

Half-size SBC with Intel® Pentium® 4/ Celeron® Processor

02

Half-size SBCs - PCI



Features

- Intel® Pentium® 4/ Celeron® Processor, up to 3.0GHz
- Intel® 865G + Intel® ICH5 (ICH5R)
- DDR400 Memory up to 2GB
- 10/100Base-TX Ethernet x 1 or Gigabit Ethernet x 1 (Optional)
- Integrates AGP 8X 2D/3D Graphics Accelerator, VGA Support
- AC97 Codec Audio Daughter Board Optional
- Ultra ATA100 & SATA & Type-I CompactFlash™ x 1
- USB2.0 x 7, COM x 2, Parallel x 1, IrDA x 1
- PCI Expansion
- ATX 2.1



Packing List

- **1701340704**
Flat Cable, 34P, 70cm, GRAY for Floppy Disk Drive
- **1701400453**
Cable, 40P 2.54mm IDC w/Nose w/Fold, 40P 2.54mm IDC w/Nose w/Fold, 45cm, Blue ATA100
- **1709100201**
USB Cable, 20cm 2.0mm, w/Bracket
- **1700060192**
Cable, 6P-6P-6P, 19cm, IVORY, PS/2 / Keyboard & Mouse
- **1701260307**
Flat Cable, 9P/DB9P Male & 25P DB25P Female, 10P 2mm & 26P 2mm/IDC No Fold, 30cm, w/Bracket
- **1701100305**
Flat Cable, 9P/DB9P Male, 10P/2.0mm Pitch/IDC No Fold, 30cm, w/Bracket
- **1703030501**
Wire, 3P 2.5mm Housing, 3P 2.5mm Housing, 50cm
- **1709070780**
SATA Cable, 7P Pitch 1.27mm, 78cm
- **Quick Installation Guide**
- **Utility CD**
- **HSB-835P**

Specification

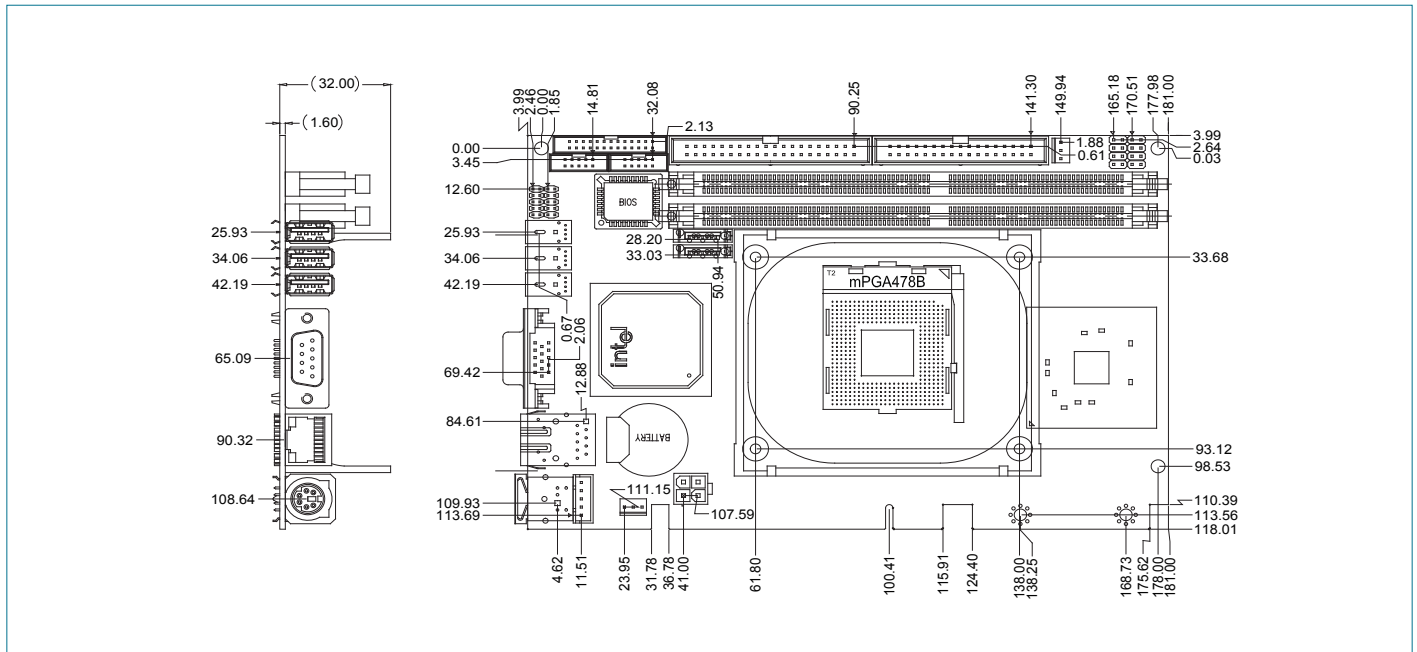
| System | |
|-------------------------------|---|
| Form Factor | PCI, Half-size SBC |
| Processor | Supports Intel® Pentium® 4 and Celeron® processors up to 3.0 GHz (400/533/800 MHz FSB) |
| System Memory | 184-pin 2.5V DDR DIMM Socket x 2, up to 2 GB DDR266/333/400 Dual-channel Support |
| Chipset | Intel® 865G + Intel® 82801EB/ER (ICH5/ICH5R) |
| Ethernet | 10/100Base-TX or Gigabit Ethernet (optional), RJ-45 x 1, Intel® 82562EZ/ 82547GI controller |
| BIOS | Award Plug & Play Firmware Hub BIOS-4Mb ROM |
| Expansion Interface | PICMG/ PCI interface |
| Watchdog Timer | 1~255 step can be set with software on Super I/O |
| RTC | Internal RTC |
| Battery | Lithium battery |
| Power Requirement | ATX 2.1 |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C) |
| Board Size | 7.3" (L) x 4.8" (W) (185 mm x 122 mm) |
| Gross Weight | 0.66 lb (0.3 kg) |
| MTBF (Hours) | 90,000 |
| Power Consumption (Typical) | 65W, with Pentium® 4 3.2GHz/ FSB 533MHz/ 1MB L2 Cache |
| Display | |
| VGA Chipset | Integrated on Intel® 865GV, AGP 8X, Core frequency up to 266MHz |
| Memory | Shared system memory up to 8M |
| Resolutions | 1600x1200@32bpp colors for CRT 1280x1024@24-bit colors for LCD |
| I/O | |
| I/O chipset + Winbond 83627HG | |
| Storage | ATA100 x 1 channel (Supports two ATAPI devices); SATA I x 2 (RAID function optional) Supports CompactFlash™ Type I Standard Floppy Connector x 1 (up to two devices) |
| Serial Port | Two COM ports: (Internal Pin Header x 2) COM 1: RS-232 COM 2: RS-232/422/485 |
| Parallel Port | Supports SPP/ EPP/ ECP modes |
| Universal Serial Bus | USB2.0 x 7 5 x 2 pin-header x 2 Type A x 3 |
| PS/2 Port | Keyboard x 1; Mouse x 1 |
| IrDA | Supports IrDA header x 1 |
| Audio (Daughter Board) | Realtek ALC655 AC97 Codec, MIC-in/Line-in (Optional) /Line-out/CD-in |

Ordering Information

- **TF-HSB-835P-B10-V**
Half-size PICMG/PCI, Pentium® 4, VGA, 7 USB, CompactFlash™, AC97, SATA, ATX, Rev. A1.0
- **TF-HSB-835P-B10-VE**
Half-size PICMG/PCI, Pentium® 4, VGA, 1 10/100Base-TX Ethernet, 7 USB, CompactFlash™, AC97, SATA, ATX, Rev. A1.0
- **TF-HSB-835P-B10-VG**
Half-size PICMG/PCI, Pentium® 4, VGA, 1 Gigabit Ethernet, 7 USB, CompactFlash™, AC97, SATA, ATX, Rev. B1.0
- **TF-HSB-835P-B10-VF**
Half-size PCI CPU Card, Pentium® 4, VGA, 7 USB, w/o CompactFlash™, AC97, SATA, ATX, Rev. B1.0
- **TF-HSB-835P-B10-VEF**
Half-size PCI CPU Card, Pentium® 4, VGA, 1 10/100Base-TX Ethernet, 7 USB, w/o CompactFlash™, AC97, SATA, ATX, Rev. B1.0
- **TF-HSB-835P-B10-VGF**
Half-size PCI CPU Card, Pentium® 4, 1 Gigabit Ethernet, 7 USB, w/o CompactFlash™, AC97, SATA, ATX, Rev. B1.0

HSB-835P

Dimension Unit: mm



Passive Backplane Options

| P/N | Description | Master Interface | Slots (PCI/ ISA/ PICMG_PCI) | Power ATX Extend Function |
|----------------|---|------------------|-----------------------------|---------------------------|
| TF-BP-208SP-P7 | Wallmount, PCI, 8-slot Backplane, 7 PCI, Single Segment, ATX | PCI | (7/0/1) | ATX, 3-pin ATX extend |
| TF-BP-206SP-P4 | Wallmount, PCI, 6-slot Backplane, 4 PCI, Single Segment, ATX | PCI | (4/0/2) | ATX, 3-pin ATX extend |
| TF-BP-205SP-P4 | Wallmount, PCI, 5-slot Backplane, 4 PCI, Single Segment, ATX | PCI | (4/0/1) | ATX, 3-pin ATX extend |
| TF-BP-204SP-P3 | Wallmount, PCI, 4-slot Backplane, 3 PCI, Single Segment, AT/ATX | PCI | (3/0/1) | ATX, 3-pin ATX extend |

Optional Accessories

- **TF-PER-U00A**
AC97 Audio Daughter Board
- **1701400802**
Flat Cable, 40P-40P-40P (UL: 2651, 15cm + 65cm), 80cm for ATA33
- **1701400800**
Flat Cable, 40P-40P-40P (UL: 20674, 15cm + 65cm), 80cm for ATA100
- **1701400702**
Flat Cable, 40P ATA100 2.54mm, Blue/GRAY/BLACK 70cm for Hard Disk Drive
- **1759200332**
CPU Cooler Fan 1U for Pentium® 4 2.8G, 3P, 12V, Dual Ball Bearing
- **1759200155**
CPU Cooler Fan + Heatsink, Socket 478, 3P, 12V, for P4 Over 3.06GHz