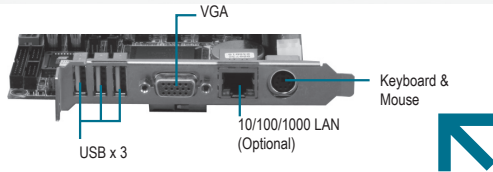
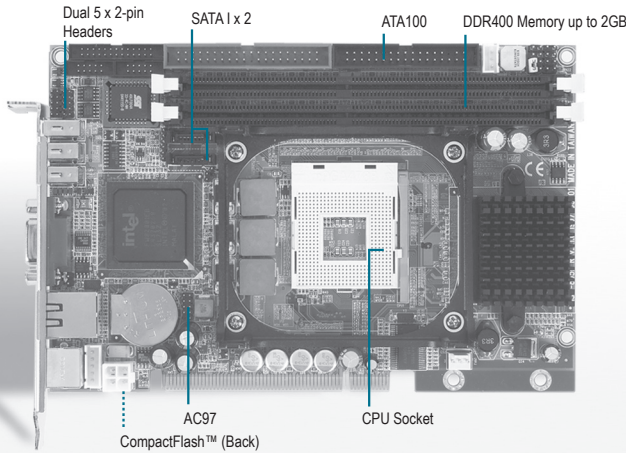


# HSB-835P

## 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



### 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	
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

### Packing List

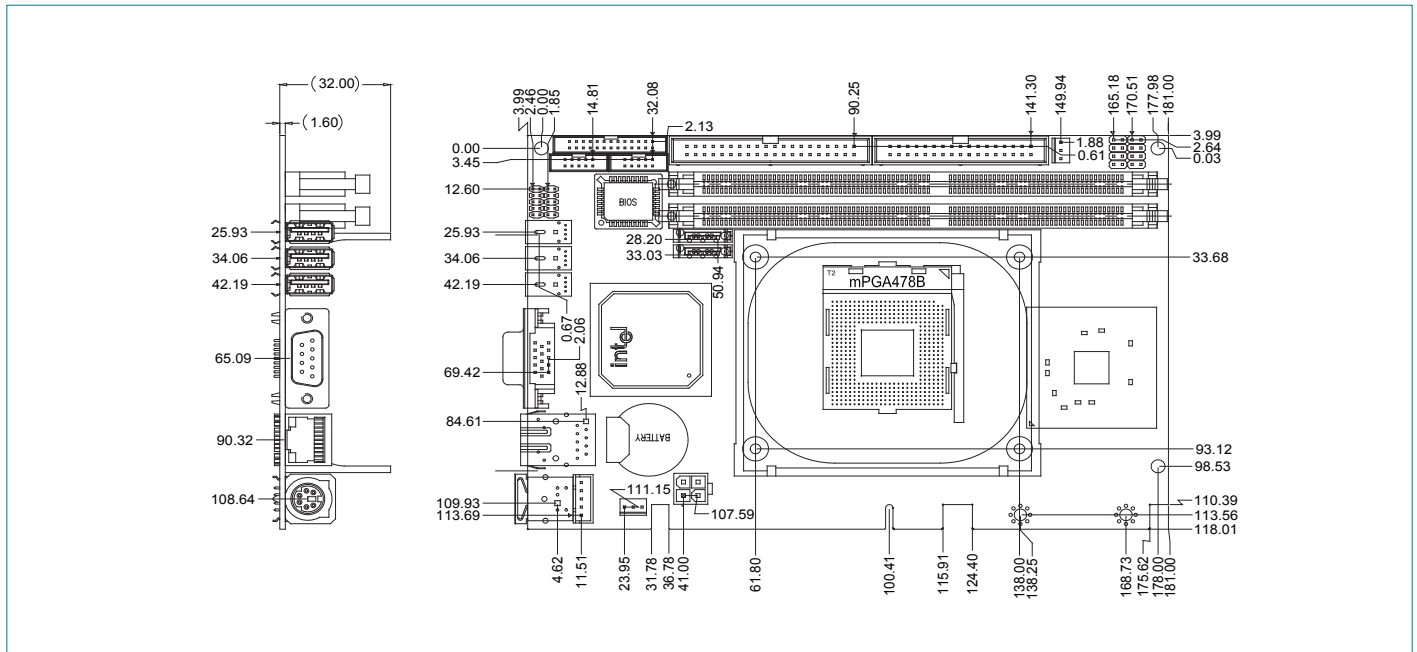
- **1701340704**  
Flat Cable, 34P, 70cm, GRAY for Floppy Disk Drive
- **1701400453**  
Cable, 40P 2.54mm IDC w/Nose w/Fold, 40P 2.54mm IDC w/Nose w/Fold, 45cm, Blue ATA100
- **1709100201**  
USB Cable, 20cm 2.0mm, w/Bracket
- **1700060192**  
Cable, 6P-6P-6P, 19cm, IVORY, PS/2 / Keyboard & Mouse
- **1701260307**  
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**

### 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