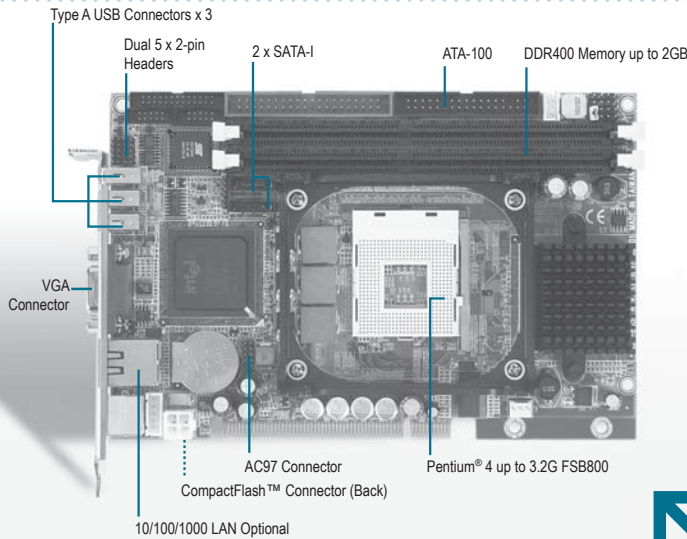


HSB-835P

Intel® Pentium® 4 3.0GHz PICMG_PCI, Half-size SBC

02

Half-size SBCs - PCI



Features

- Intel® Pentium® 4 CPU up to 3.2GHz
- DDR400 Memory up to 2GB
- Integrates AGP 8X 2D/3D Graphics Accelerator, VGA Support
- 10/100/1000 Base-TX Ethernet Port x 1 (10/100 & GbE Optional)
- Integrates AC97 Codec Audio (Daughter Board Optional)
- USB 2.0 Port x 7 / RS-232 x 1 / RS-232/422/485 Port x 1 / Parallel Port x 1 / IrDA Port x 1
- Ultra ATA100 & SATA & CompactFlash™ Type-I Storage
- Watchdog Function 1~255 Sec.



Specifications

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, total up to 2 GB Supports Dual Channels DDR memory (DDR266/333/400)
Chipset	Intel® 865GV + Intel® 82801EB/ER (ICH5/ICH5R)
Ethernet	10/100Mb or 10/100/1000Mb LAN optional, RJ-45 x 1, Intel® 82562EZ/ 82547GI controller
BIOS	Award Plug & Play Firmware Hub BIOS-4Mb ROM
IDE Interface	ATA-100 x 1 channel (Supports two ATAPI devices); SATA-1 x 2 (Supports two SATA devices, Raid function optional)
SSD	Supports CompactFlash™ Type II Connector
Expansion Interface	PICMG/ PCI, interface
Watchdog Timer	1~255 sec. can be set with software on Super I/O
RTC	Internal RTC
Battery	Lithium battery
Power Requirement	ATX, ATX12V
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	0.71 lb (0.3 kg)
MTBF (Hours)	94,219
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	Share system memory up to 8M
Resolutions	1600x1200@32bpp colors for CRT 1280x1024@24-bit colors for LCD
I/O	
Serial Port	Two COM ports: (Internal Pin Header, External D-sub x 2) COM 1: RS-232 COM 2: RS-232/422/485
Parallel Port	Supports SPP/ EPP/ ECP modes
Universal Serial Bus	USB port x 7 5 x 2 pin-header x 2 Type A connector x 3
Floppy Drive Interface	One Standard Floppy Disk Drive port, supports up to two floppy devices
Keyboard and Mouse	Mini-DIN for PS/2 keyboard and mouse connector x 1, Internal keyboard pin header x 1
IR Interface	Supports IrDA header x 1
Audio (Daughter Board)	Realtek ALC655 AC97 Codec, MIC-in/Line-in (Optional) /Line-out/CD-in

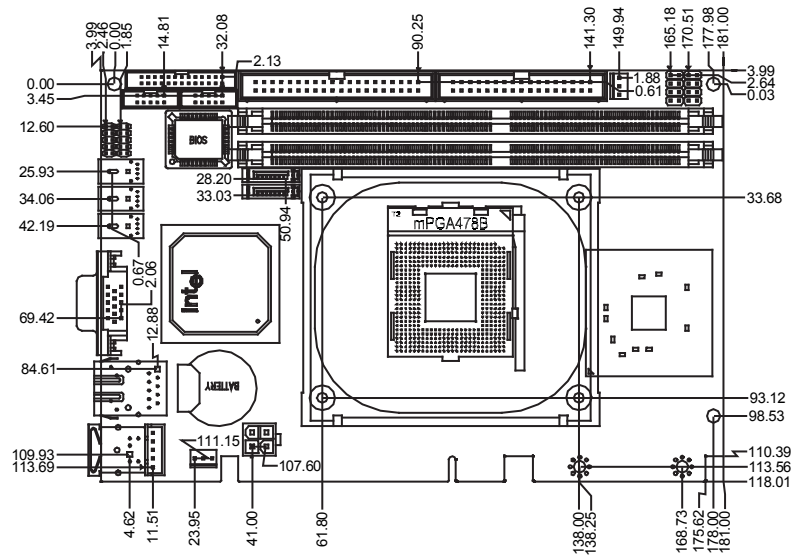
Packing List

- **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 ATA-100
- **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-A11-V**
Half-size PICMG/PCI, Pentium® 4, VGA, 7 USB, CF, AC97, SATA, ATX, Rev.A1.0
- **TF-HSB-835P-A11-VE**
Half-size PICMG/PCI, Pentium® 4, VGA, 1 LAN, 7 USB, CF, AC97, SATA, ATX, Rev.A1.0
- **TF-HSB-835P-A11-VG**
Half-size PICMG/PCI, Pentium® 4, VGA, 1 GbE LAN, 7 USB, CF, AC97, SATA, ATX, Rev.A1.0
- **TF-HSB-835P-A11-VF**
Half-size PCI CPU Card, Pentium® 4, VGA, 7 USB, w/o CF, AC97, SATA, ATX, Rev.A1.0
- **TF-HSB-835P-A11-VEF**
Half-size PCI CPU Card, Pentium® 4, VGA, 1 LAN, 7 USB, w/o CF, AC97, SATA, ATX, Rev.A1.0
- **TF-HSB-835P-A11-VGF**
Half-size PCI CPU Card, Pentium® 4, 1 GbE LAN, 7 USB, w/o CF, AC97, SATA, ATX, Rev.A1.0

Dimension Unit: mm



Passive Backplane Options

P/N	Description	Master Interface	Slots (PCI/ISA/PICMG_PCI)	Power Connector, ATX Extend Function
TF-BP-208SP-P7-A10	Wallmount, PCI, 8-slot Backplane, 7 PCI, Single Segment, ATX, Rev.A1.0	PCI	(7/0/1)	ATX, 3-pin ATX extend
TF-BP-206SP-P4-A10	Wallmount, PCI, 6-slot Backplane, 4 PCI, Single Segment, ATX, Rev.A1.0	PCI	(4/0/2)	ATX, 3-pin ATX extend
TF-BP-205SP-P4-A12	Wallmount, PCI, 5-slot Backplane, 4 PCI, Single Segment, ATX, Rev.A1.2	PCI	(4/0/1)	ATX, 3-pin ATX extend
TF-BP-204SP-P3-A11	Wallmount, PCI, 4-slot Backplane, 3 PCI, Single Segment, AT/ATX, Rev.A1.1	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 ATA-100 2.54mm, BLUE/GRAY/BLACK 70cm for Hard Disk Drive
- **1759200331**
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
- **1759200158**
CPU Cooler Fan + Heatsink, Socket 478, 3P, 12V, for P4 Over 3.2GHz
- **1759200165**
CPU Cooler Fan for Socket 478, P4 3.2GV, 3P, 12V