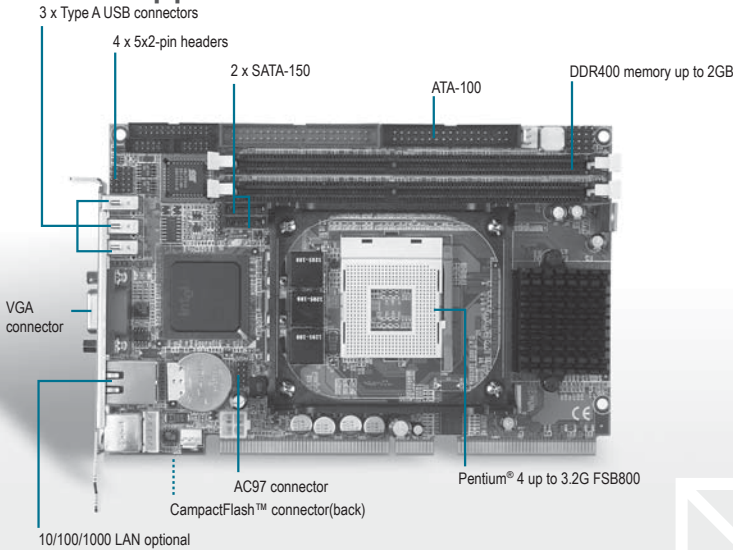


## Intel® Pentium® 4 3.2GHz APCI Half-size SBC

### SATA Supports



### Features

- Supports Intel® Pentium® 4 CPU up to 3.2GHz
- DDR400 Memory Supports Up to 2GB
- Integrated AGP 8X 2D/3D Graphics Accelerator, VGA Supports
- Integrated AC-97 Codec Audio (Daughter Board Optional)
- Supports one 10/100/1000Base-TX Ethernet (10/100 & GbE Optional)
- Supports Ultra ATA100 & SATA & CompactFlash™ Type-I Storage
- 7 USB 2.0 Ports / RS-232 X 1, RS-232/422/485 X 1 / 1 Parallel / 1 IrDA Port
- Watchdog Function 1 ~ 255 Sec.

### Specifications

System	
Form Factor	APCI Half-size SBC
Processor	Intel® Pentium® 4 / Celeron CPU, FSB: 400/533/800MHz, supports up to 3.2GHz
System Memory	2 x 184-pin 2.5V DDR DIMM Socket, total up to 2 GB Supports Dual Channels DDR memory (DDR266/333/400)
Chipset	Intel® 865G/PE + Intel® 82801EB/ER (ICH5/ICH5R)
VGA Controller	Integrated on Intel® 865G, AGP 8X, Core frequency up to 266MHz
Ethernet	10/100Mb or 10/100/1000Mb LAN optional, RJ-45 x1 Intel® 82562EZ / 82547EI controller
Audio (Daughter Board)	Realtek ALC655 AC97 Codec, MIC-in/Line-in/Line-out/CD-in
BIOS	Award Plug & Play ISA BIOS - 4Mb ROM
IDE Interface	ATA-100 x 1 channel (Supports two ATAPI devices) SATA-150 x 2 (Supports two SATA devices, Raid function optional)
CompactFlash™	Supports CF Type II Connector
Expansion Interface	APCI Interface
Watchdog Timer	1 ~ 255 Sec, can be set with software on Super I/O
RTC	Internal RTC
Power Requirement	ATX, ATX12V
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
I/O	
Floppy Drive Interface	One Standard Floppy Disk Drive port, supports up to two floppy devices
Serial Port	Two COM ports: (Internal Pin Header, External D-sub x 2) COM 1: RS-232/422/485 COM 2: RS-232
Parallel Port	Supports SPP/ EPP/ ECP mode
Keyboard and Mouse	One Mini-DIN PS/2 Keyboard and Mouse connector One internal keyboard pin header
Universal Serial Bus	Seven USB 2.0 Ports Dual 5x2-pin headers for internal Three TYPE-A Connectors onboard
IrDA	IrDA Tx/Rx header x 1



### Packing List

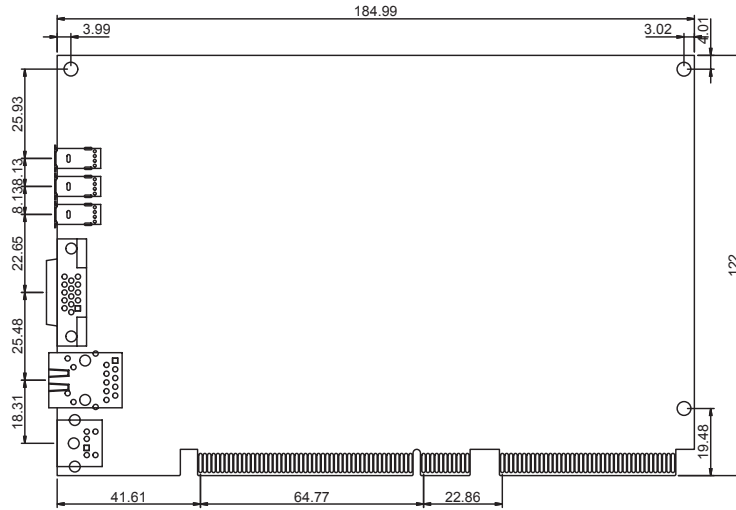
- **1701340704**  
Flat Cable, 34P, 70cm, GRAY for Floppy Disk Drive
- **1701400453**  
Cable, 40P 2.54mm IDC w/Nose w/Fold, 40P 2.54mm IDC w/Nose w/Fold, 45cm, BLUE ATA-100
- **1709100201**  
USB Cable, 20cm 2.0mm, w/Bracket
- **1700060192**  
Cable, 6P-6P-6P, 19cm, IVORY PS/2 / Keyboard & Mouse
- **1701260307**  
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-835A**

### Ordering Information

- **HSB-835A-A10-V**  
Half-size APCI CPU Card, Pentium® 4, VGA, 7 USB ports, CF, ATX, Rev.A1.0
- **HSB-835A-A10-VE**  
Half-size APCI CPU Card, Pentium® 4, VGA, LAN, 7 USB ports, CF, ATX, Rev.A1.0
- **HSB-835A-A10-VG**  
Half-size APCI CPU Card, Pentium® 4, VGA, GbE LAN, 7 USB ports, CF, ATX, Rev.A1.0

Dimension

Unit: mm



Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
BP-214SA-P5I6-A11	Rackmount, 2 APCI/1 AGP, 14-slot Backplane, 5 PCI, 6 ISA, Rev.1.1	APCI	5/6/1/2 (PCI/ ISA/ AGP/ APCI)	ATX, 3-pin ATX extend
BP-214SA-P6-A11	Rackmount, 2 APCI/1 AGP, 14-slot Backplane, 6 PCI, Rev.1.1	APCI	6/0/1/2 (PCI/ ISA/ AGP/ APCI)	ATX, 3-pin ATX extend
BP-204SA-P2-A11	Wallmount, APCI, 4-slot Backplane, 2 PCI, 1 AGP, Single Segment, ATX, Rev.A1.0, Bulk Pack	APCI	2/0/1/1 (PCI/ISA/AGP/APCI)	ATX, 3-pin ATX extend

Optional Accessories

- **PER-U00A**  
AC97 Audio Daughter Board
- **1759200004**  
CPU Cooler Fan for Pentium® 4 3.2G, 3P, 12V, One ball bearing
- **1759200154**  
CPU Cooler Fan + Heat Sink, Socket 478, 3P, 12V, 1U Low Profile
- **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

01

Full-size SBC

02

Half-size SBC

03

Industrial Motherboard

04

Industrial Chassis

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Firewall Platform

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Industrial Backplanes

07

Daughter Board

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Embedded Motherboards

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Mini PCI Modules

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Sun-readable LCD Monitors

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Accessories