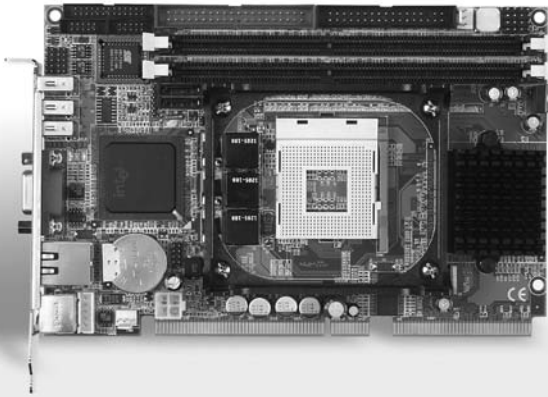


HSB-835A

Industrial Computing Platform Partner

Intel® Pentium® 4 APCI Half-size SBC



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-T 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

Main Specifications	
Form Factor	APCI Half-size SBC
Processor	Intel® Pentium® 4 / Celeron® CPU, FSB: 400/533/800MHz, supports up to 3.2GHz
Main Chipset	Intel® 865G/PE + Intel® 82801EB/ER (ICH5/ICH5R)
System Memory	2 x 184 Pin 2.5V DDR DIMM Socket, total up to 2 GB Supports Dual Channels DDR memory (DDR266/333/400)
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)
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
CompactFlash	Supports CFD Type II Connector
Expansion Interface	APCI Interface
IR Interface	Supports One IrDA header
Watchdog Timer	1 ~ 255 Sec. can be set with software on Super I/O
RTC	Internal RTC
Power Supply Request	ATX12V, other from Backplane
Operation Temp.	32°F ~ 140°F (0°C ~ 60°C)

Packing List

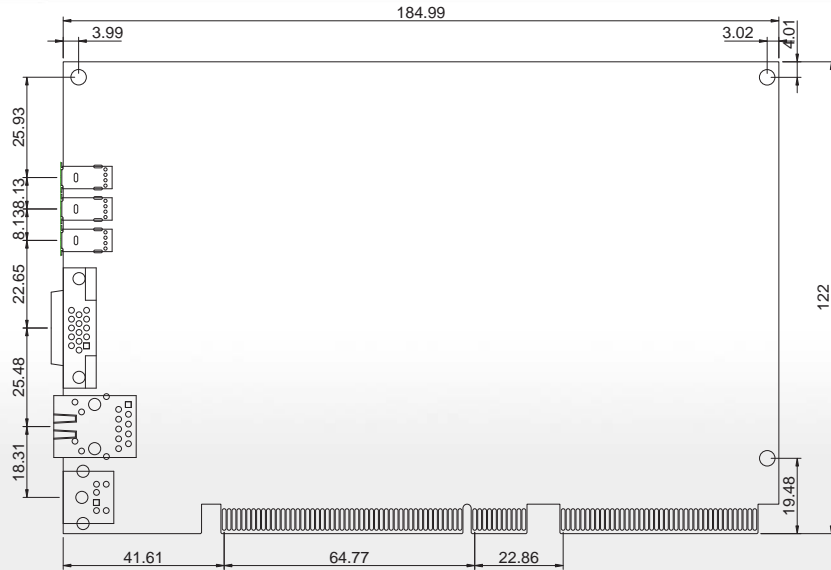
- **1701340704** Flat Cable, 34P, 70cm, GRAY for Floppy Disk Drive
- **1701400453** Cable. 40P 2.54mm IDC w/Nose w/Fold. 40P 2.54mm IDC w/Nose w/Fold. 45mm. BLUE ATA-100
- **1709100201** USB Cable. 20cm 2.0mm. w/Bracket
- **1700060192** Cable. 6P-6P-6P. 19cm. IVORY PS/2 / Keyboard & Mouse
- **1701260307**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

Model Name	Backplane Type	Slots					Power Connector	Configuration Standard
		Total	APCI	PCI	ISA	AGP		
BP-204SA-P2-A11	APCI	4	2	2	0	1	ATX	AEC-204
BP-214SA-P6-A11	APCI	14	2	6	0	1	AT, ATX	ARC-640, 645
BP-214SA-P516-A11	APCI	14	2	5	6	1	AT, ATX	ARC-640, 645

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

1

Full-size
SBC

2

Half-size
SBC

3

Embedded
Motherboards

4

Mini PCI
Modules

5

Industrial
backplanes

6

Industrial
Chassis

7

Sun-readable
LCD Monitors

8

Accessories