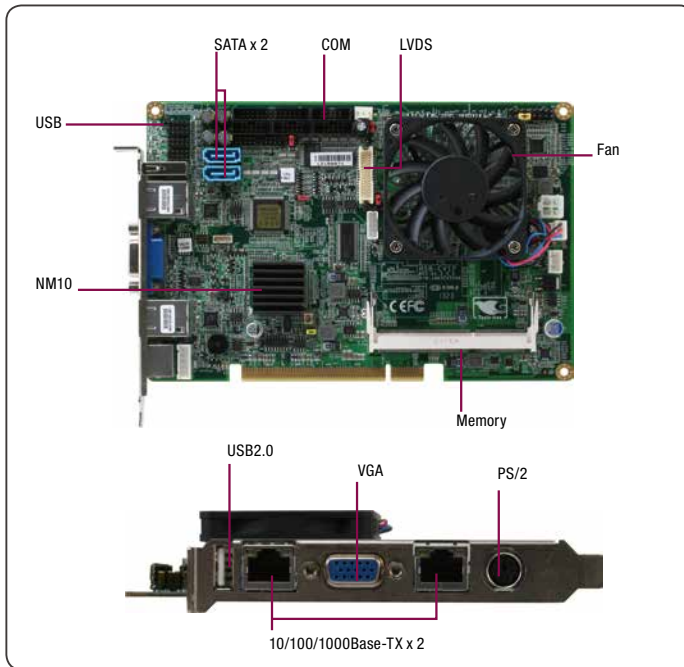


# 14 HSB-CV1P

Half-Size SBCs - PCI

PCI Half-Size SBC with Intel® Atom™ D2550/N2600 Processor



## Features

- Onboard Intel® Atom™ D2550/N2600 Processor
- Intel® NM10
- DDR3 800/1066 MHz SODIMM x 1, Up to 4 GB (D2550), 2 GB (N2600)
- HD Codec Audio Daughter Board (Optional)
- Gigabit Ethernet x 2
- USB 2.0 x 8
- COM x 4 (RS-232 x 3, RS-232/422/485 x 1)
- SATA 3.0 Gb/s x 2, Digital I/O, Parallel Port x 1, IrDA Port x 1
- Up to 24-bit Single Channel LVDS (N2600 Supports 18-bit Single Channel Only)
- Note: The IrDA function will be disabled under Windows® 7 Operating System.



## Specifications

| System                      |  |
|-----------------------------|--|
| Form Factor                 | Half-size CPU Card   |
| Bus Interface               | PCI  |
| CPU                         | Onboard Intel® Atom™ D2550/ N2600  |
| Memory Type                 | DDR 3 800/ 1066 SODIMM x 1, max. 4 GB  |
| Chipset                     | Intel® NM10  |
| BIOS                        | AMI  |
| Wake on LAN                 | No   |
| Watchdog Timer              | 255 Levels   |
| Power Requirement           | ATX 2.1  |
| Power Consumption (Typical) | Intel® Atom™ D2550 1.86 GHz, DDR3 4 GB<br>0.1A @+12V, 0.95A@+5V, 5.95W   |
| Power Supply Type           | ATX 2.1 (+12V)   |
| Dimension (L x W)           | 7.3" x 4.8" (185mm x 122mm)  |
| Operating Temperature       | 32°F ~ 140°F (0°C ~ 60°C)  |
| Storage Temperature         | -40°F ~ 176°F (-40°C ~ 80°C)   |
| Operating Humidity          | 0% ~ 90% relative humidity, non-condensing   |
| MTBF (Hours)                | 80,000   |
| Certification               | CE/FCC, Class A  |
| Display                     |  |
| VGA/LCD Controller          | Intel® NM10  |
| Video Output                | Up to 1920 x 1200 for CRT<br>Up to 1440 x 900, (D2550) 18-bit & 24-bit Single channel for LVDS<br>Up to 1366 x 768, (N2600) 18 bit single channel for LVDS |
| Backlight inverter supply   | 5V/12V   |
| I/O                         |  |
| Ethernet                    | 10/100/1000Base-TX x 2   |
| Audio                       | HD codec daughter board (optional)   |
| USB Port                    | USB2.0 x 8   |
| Serial Port                 | RS-232 x 3 (-12V Required)<br>RS-232/422/485 x 1   |
| Parallel Port               | 1  |
| HDD Interface               | SATA 2 x 2   |
| FDD Interface               | —  |
| SSD                         | —  |
| Expansion Slot              | PCI x 4  |
| DIO                         | 8-bit Programmable (4-in/4-out)  |
| TPM                         | —  |

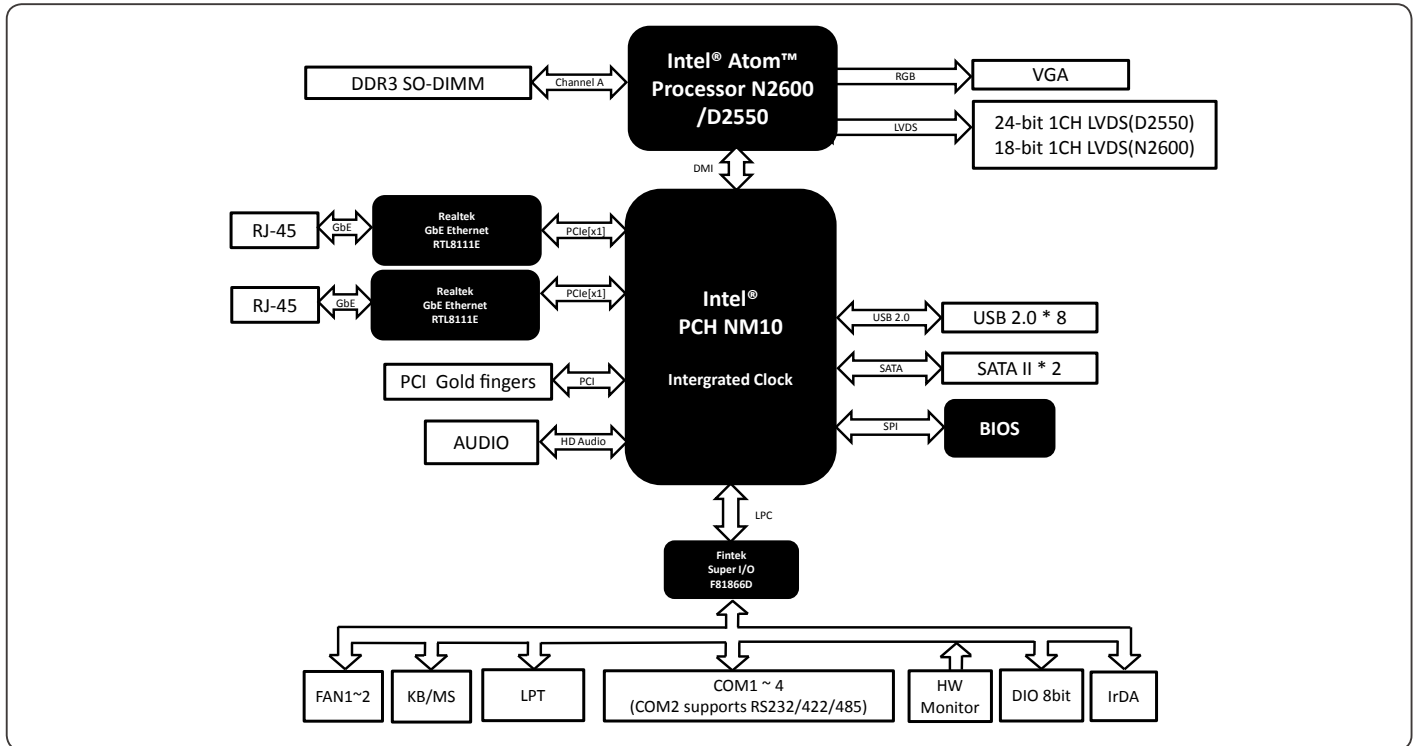
## Packing List

- Cable Kit for HSB Series
- SATA Cable
- USB Cable
- PS2 KB/MS Cable
- COM Port Cable
- LPT and COM Port Cable
- ATX Cable
- Product CD
- HSB-CV1P

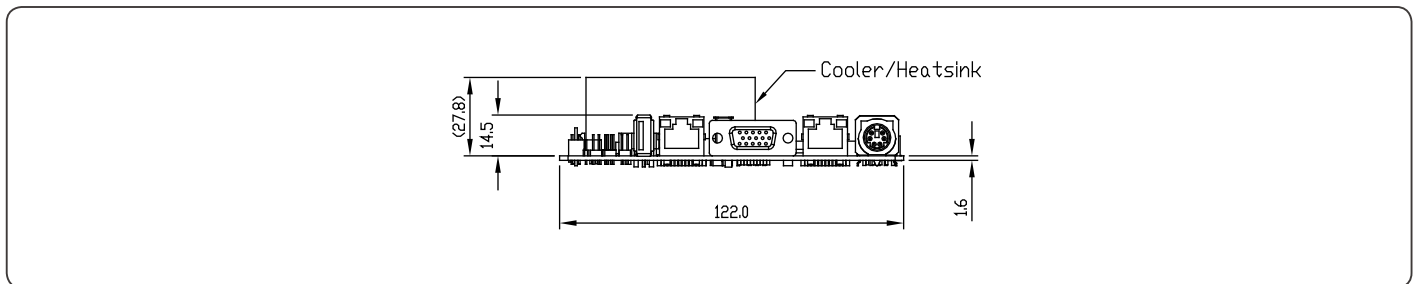
## Optional Accessories

- TF-PER-U01H-A10  
High Definition Codec Audio Daughter Board, Rev. A1.0

## Block Diagram



## Dimension Unit: mm



## Passive Backplane Options

| P/N            | Description   | Master Interface | Slots (PCI/ISA/PICMG_PCI) | Power ATX Extend Function |
|----------------|---|------------------|---------------------------|---------------------------|
| TF-BP-204SP-P3 | Wallmount, 4-slot Backplanes, 3 PCI, Single Segment, AT/ATX | PCI              | (3/0/1)                   | AT/ATX, 3-pin ATX Extend  |

## Ordering Information

| Part Number        | CPU          | RAM    | Fan/Fanless | Display    | Storage   | LVDS        | LAN     | USB        | RS-232 | RS-232/422/485 | Expansion Slot | Power | Temp.      |
|--------------------|--------------|--------|-------------|------------|-----------|-------------|---------|------------|--------|----------------|----------------|-------|------------|
| HSB-CV1P-A12-G2-00 | Intel® D2550 | SODIMM | With Fan    | VGA + LVDS | SATA2 x 2 | 18/24b, 1CH | GbE x 2 | USB2.0 x 8 | 3      | 1              | PCI            | ATX   | 0°C ~ 60°C |
| HSB-CV1P-A12-G2-01 | Intel® N2600 | SODIMM | Fanless     | VGA + LVDS | SATA2 x 2 | 18b, 1CH    | GbE x 2 | USB2.0 x 8 | 3      | 1              | PCI            | ATX   | 0°C ~ 60°C |

**Note:**  
Intel® Atom™ Processor D2000 series and N2000 series (CV) do NOT support DMA function that may affect ECP mode of Parallel port.