

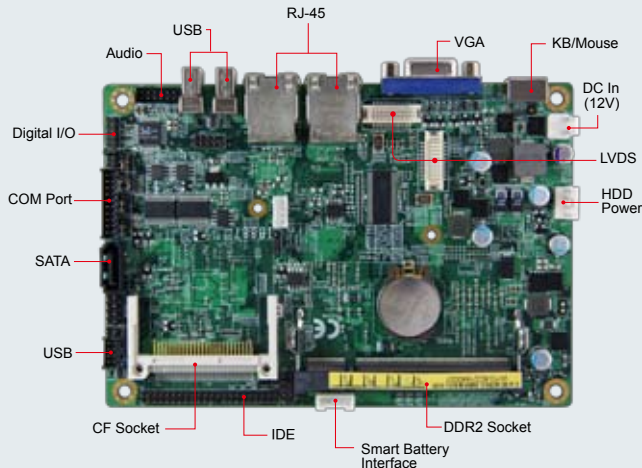
# Disk-Size SBCs

3.5" SBC

Intel® Atom™-Based

Intel® Atom™ N270 3.5-inch Disk Size SBC with Intel® 945GSE Chipset

## IB887



### Features

- Onboard Intel® Atom™ Processor N270, 1.6GHz, 533MHz FSB
- 1x DDR2 SO-DIMM, Max. 2GB
- Intel® 945GSE VGA for CRT / LVDS
- 2x Intel® PCI-E Gigabit LAN
- Watchdog timer, Digital I/O
- 1x SATA, 4x USB 2.0, 2x COM, CF socket

### System

|                 |                                       |
|-----------------|---------------------------------------|
| CPU             | Intel® Atom™ Processor N270, 1.6GHz   |
| System Memory   | 1x DDR2 SO-DIMM, 400/533MHz, Max. 2GB |
| System Chipset  | Intel® 945GSE + ICH7M, 533MHz FSB     |
| BIOS            | Award                                 |
| Watchdog Timer  | 256 levels                            |
| SSD             | Type II CF socket                     |
| H/W Monitor     | Yes                                   |
| Expansion Slots | N/A                                   |

### Graphics

|                   |                                               |
|-------------------|-----------------------------------------------|
| VGA Controller    | Intel® 945GSE integrated GMA950               |
| VGA Memory        | Supports DVMT 4.0; Max. shared memory - 224MB |
| Display Interface | Supports CRT VGA & 24-bit dual channel LVDS   |

### Ethernet

|            |                                    |
|------------|------------------------------------|
| Controller | 2x Intel® 82574L PCI-E Gigabit LAN |
| Connector  | RJ-45 on board                     |

### Multi I/O

|         |                                                                                              |
|---------|----------------------------------------------------------------------------------------------|
| Chipset | ICH7M, Winbond W83627EHG<br>1x IDE, 1x KB, 1x mouse, 1x RS232,<br>1x RS-232/422/485, 1x SATA |
| USB     | 2 ports on board<br>Pin header for 2 ports (USB 2.0)                                         |
| Audio   | Built-in Intel® HD audio + ALC662 codec for 6 channels                                       |
| Others  | Digital I/O, +12V DC In                                                                      |

### Mechanical and Environmental

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Dimensions             | 102mm x 147mm (4" x 5.8")                                    |
| Max. Power Requirement | Intel® Atom™ N270 1.6GHz<br>w/ 512MB DDR2-533<br>+12V: 2.03A |
| Operating Temperature  | 0°C~60°C (32°F~140°F)                                        |
| Storage Temperature    | -20°C~80°C (-4°F~176°F)                                      |
| Relative Humidity      | 10%~90% (non-condensing)                                     |

### Ordering Information

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| IB887          | Intel® Atom™ N270 945GSE 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN                      |
| IB47A          | Cable kit for IB887 series, w/ IDE, PS/2, audio, USB, COM, power cable and SATA                        |
| HSIB883-BGA1-4 | Heatsink for IB883/IB887 BGA                                                                           |
| ASB200-887M    | Aluminum Chassis for IB887 3.5" SBC, Intel® Atom™ N270(1.6GHz) CPU, 2.5" HDD holder, 60W power adaptor |



#### Remarks:

1. For optional daughter boards and riser cards, please refer to page 19-20.
2. Specifications are subject to change without prior notice.