

## Ultra Low Power Industrial Computing Boards & Panel PCs with Intel® Atom™ Processor



- Featuring Intel® Atom™ Processors
- Fanless Designs
- Graphics and Media support
- Application: Infotainment, Residential Gateway, Print Imaging, Security



▶ [About Intel® Atom™](#)

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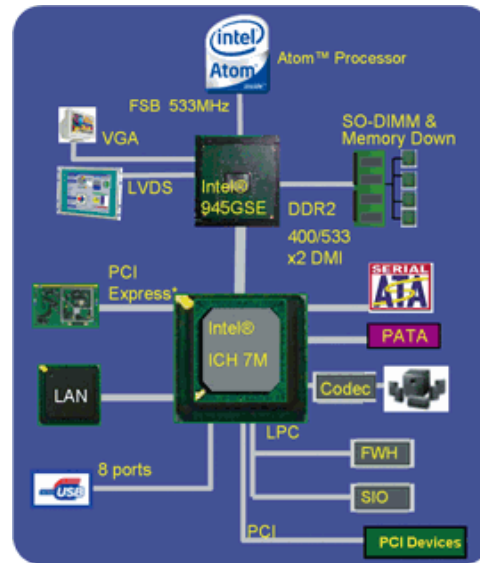
### ▶ About Intel® Atom™

The 45 nm Intel® Atom™ processor N270 has a 1.60 GHz clock speed and a 533 MHz FSB with a 512 KB L2 cache. The Intel® Atom™ is interfaced through the 533 MHz FSB to an Intel® 945GSE graphics memory controller hub (GMCH) which is in turn interfaced through a high-speed direct media interface (DMI) to an Intel® Mobil ICH7-M I/O controller hub (ICH).

#### Features and Benefits

- ▶ High-performance 45 nm Atom™ processor ensures high data throughputs can be processed quickly
- ▶ Multiple form-factor ensures multi-sized systems can be developed around the motherboard
- ▶ Low-power input conserves electricity and reduces system-cooling requirements
- ▶ Versatile LVDS and VGA graphics support enables connectivity to different display types

#### Navy Pier 3 Chips solution



#### Thermals

- ▶ Intel® Atom™ processor- SC TDP = 2.5W;
- ▶ 82945GSE TDP= 4W
- ▶ ICH7M= 1.5W

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### ▶ Products Overview

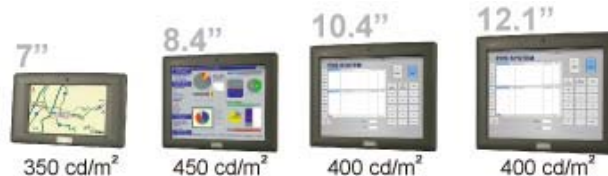
▶ AFL PPC

CPU      Chipset

Atom N270      945GSE

ALFMB

AFLMB-945GSE (7", 8.4", 10.4", 12.1")











▶ **Slot SBC**

The IEI Intel® Atom™ SBC portfolio include the following form factors: 3.5" (WAFER-ATOM), 5.25" (NOVA-ATOM), EPIC (NANO-ATOM), mini ITX (KINO-ATOM), half-size PCI Express (PICOe-ATOM) and full-size PICMG 1.0 (WSB-ATOM) SBC.

| CPU          | Chipset | PICMG1.0<br>WSB-ATOM  | Half-PCIe<br>PICOe-ATOM  |
|--------------|---------|--|---|
| Atom<br>N270 | 945GSE  |                       |                          |

▶ **Embedded Board**

| CPU          | Chipset | m-ITX<br>KINO-ATOM  | 5.25" (EBX)<br>NOVA-ATOM  | EPIC<br>NANO-ATOM<br>(Dual LVDS)  | 3.5"<br>WAFER-ATOM  |
|--------------|---------|--|--|--|--|
| Atom<br>N270 | 945GSE  |                     |                           |                                    |                     |

▶ **Small Size Embedded Board**

| CPU          | Chipset | COM EXPRESS type II basic module<br>ICE-ATOM   |   |
|--------------|---------|--|---|
| Atom<br>N270 | 945GSE  |           |             |
|              |         | ICE-ATOM  | ICE-DB-9S  |

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