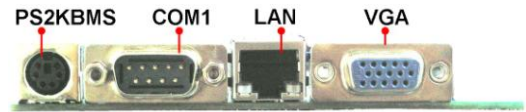
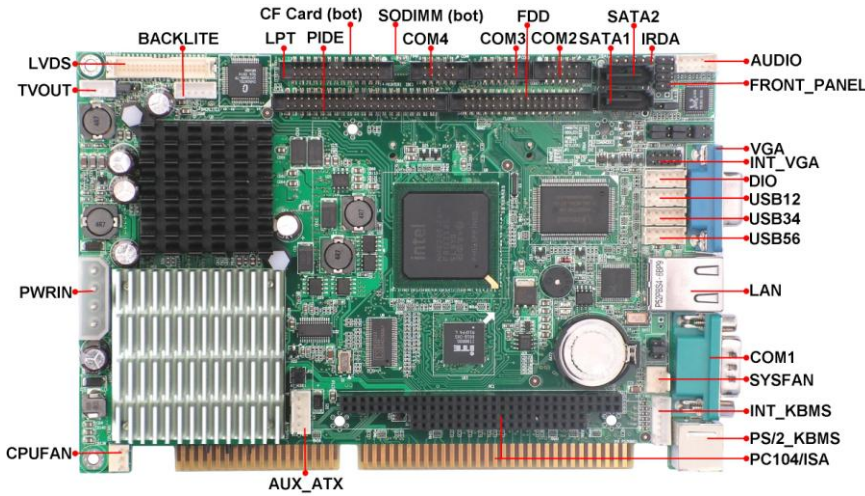




# ISA-E10

## Intel® Atom N270 945GSE ISA SBC



### Specifications

#### Processor Support

- Intel Atom processor N270 on board.
- 1.6GHz Core Speed with Hyper-threading support.
- 533MHz front side bus speed.

#### BIOS

- Award Standard PnP Flash BIOS 6.0.
- 8Mbit FlashROM with BootBlock for Fail-safe.

#### System Memory

- One DDR2 SO-DIMM Socket supports up to 2.0GB memory
- Supports DDR2-533 non-ECC memory up to 2.0 GB.

#### Chipset

- Intel 945GSE and ICH7M chipset.

#### Video

- Intel 945GSE Integrated GMA950 graphic engine.
- One D-Sub Female connector for CRT displays.
- One 40-pins connector for Dual 18/24-bits LVDS LCD displays.
- One 4-pins connector for TVOUT displays.
- Support dual Independent display, Display devices can be selectable by BIOS or graphic drivers.

#### 10/100M/1000M Ethernet

- One Realtek RT8111C on board for Dual GbE LAN support.
- Support WOL and Remote Boot with PXE or RPL protocol.

#### On Board I/O

- Winbond 83627HF LPC I/F Super I/O chip.
- Four serial ports as COM1~COM4. COM2 is RS232/422/485 selectable by jumper.
- One Parallel port supports SPP/ECP/EPP mode.
- One IrDA port. One Floppy port.
- Six USB 2.0 ports support USB KB/MS and storage devices.
- PS2 Keyboard and Mouse.
- One 8-bits digital I/O ports with configurable input and output.

#### PIDE and SATA

- PIDE controller built in ICH7M supports up to ATA100.
- One standard 44-pins box header to support 2.5" HDD or DOM Flash Disk.
- Two SATA connectors from ICH7M support SATA-I and SATA-II devices.
- One 50-pins CF-II socket for Compact Flash Card.

### Features

- Intel Atom Processor N270 on board.
- Supports DDR2 667MHz memory up to 2GB.
- One PC104 16-bits socket on board.
- Multiple I/O functions: 6 x USB2.0, 4 x COM ports, 2 x SATA, 1 x IRDA, 1x PIDE, 1x CF, 1x LPT.
- Multiple display technology: CRT, TVOUT, Dual 24-bits LVDS LCD. Dual Independent display supported.
- Support stand-alone operation with power input and screw holes.

#### Watchdog Timer

- Programmable watchdog timer for 1~255 seconds.

#### CMOS

- On-board RTC with 242 bytes of Battery-back CMOS RAM.

#### Audio

- RealTek ALC888 High-Definition Audio chip on-board.
- Support Audio Line-In, Line-OUT and MIC.

#### ISA/PC104

- ISA BUS compliant interface support standard PISA bus backplane.
- One PC104 16bits socket.

#### Power

- Support ATX and AT mode.
- 4-pins power connector on board for stand-alone operation.

#### Software Compatibility

- Microsoft windows: Win2K, Win XP 32/64-bits, Vista 32/64-bits, Windows 7 32/64-bits.
- Linux 32-bits/64-bits and DOS 6.22.

#### Cooling

- Two cooling FAN connectors for CPU cooler and System FAN.

#### Dimensions

- 185mm (W) x 127mm (L). ISA Half-size Card Standard form factor.
- 4 screw holes on corners for stand-alone operation.

#### Operating Temperature

- 0 to 60 °C operating Range.
- -40 °C to 70 °C storage.
- Relative Humidity: 5~95%, non-condensing.