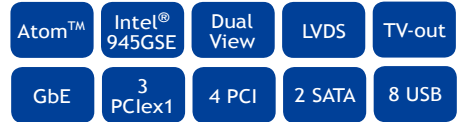


## Features

- Onboard Intel® Atom™ N270 1.6 GHz CPU
- Intel® 945GSE / ICH7-M Chipset
- One 200-pin SODIMM socket supports up to 1 GB DDR2 400/533 SDRAM,
- Onboard 1 GB DDR2 Memory
- Dual View, 2-CH LVDS, TV-out, HDTV
- Intel® High Definition Audio
- Marvell 88E8053 Gigabit Ethernet
- 4 PCI, 3 PCIe1, 2 SATA, 8 USB, 8 GPIO



## Specifications

### System

• CPU	Onboard Intel® N270 Atom™ 1.6 GHz CPU
• BIOS	Award 8 Mbit Flash BIOS
• System Chipset	Intel® 945GSE / ICH7-M
• System Memory	One 200-pin SODIMM socket supports up to 1 GB DDR2 400/533 SDRAM Onboard 1 GB DDR2 memory
• Expansion	4 PCI (PCI Rev. 2.3 compliant), 3 PCIe x1, 1 SDVO

### I/O

• MIO	1 x EIDE (Ultra DMA 100), LPC, SMBus/I <sup>2</sup> C Bus, 2 x SATA
• USB	8 x USB 2.0 ports
• DIO	4-bit GPI and 4-bit GPO

### Display

• Chipset	Intel® 945GSE integrated
• Display Memory	Intel® DVMT 3.0 Supports up to 224 MB shared video memory
• Resolution	CRT mode: 2048 x 1536 @ 75 Hz LCD/Simultaneous mode: 1600x1200 @ 60Hz
• Multiple Display	CRT + LVDS, CRT + TV, LVDS + TV
• LVDS Interface	Dual-channel 18-bit LVDS
• TV-out	Intel® 945GSE Integrated TV Interface supports HDTV

### Audio Interface

• Chipset	Intel® ICH7-M
• Interface	Intel® HD Audio

### Ethernet

• LAN	Marvell 88E8053 Gigabit Ethernet
• Ethernet Interface	1000 Base-Tx Gigabit Ethernet compatible

### Mechanical & Environmental

• Power Requirement	+12V, +5Vsb
• Power Type	ATX
• Operating Temperature	0~60°C (32~140°F)
• Operating Humidity	0%~90% relative humidity, non-condensing
• Size (L x W)	5" x 3.7" (125 mm x 95 mm)
• Weight	0.44 lbs (0.2 kg)

## Ordering Information

- **ESM-945GSE**  
Intel® 945GSE Atom™ N270 COM Express Module
- **EEV-EX11** P.6-6  
COM Express Carrier Board for Evaluation
- **ACC-HSK-2856-2R**  
Heat Sink for ESM-945GSE
- **ACC-HSP-2856-2R**  
Heat Spreader for ESM-945GSE