



Features

- Onboard Intel® Atom™ N270 1.6 GHz CPU
- Intel® 945GSE / ICH7-M Chipset
- Optional Onboard 1 GB DDR2, One SODIMM up to 2 GB SDRAM
- Dual View, Dual 18-bit LVDS, Optional 2 x 18/24-bit, TV-out, Optional DVI
- Optional Built-in Touch Screen I/F
- Dual Gigabit Ethernet
- 1 CF, 2 SATA, 6 COM, 6 USB, 16-bit GPIO
- 1 Mini PCI, 1 optional Mini PCIe
- Fanless Operation

Intel® 945GSE	Dual View	2 LVDS	2 GbE	2 SATA
6 COM	6 USB	16 GPIO	Mini PCI	Fanless

Specifications

System

• CPU	Onboard Intel® Atom™ N270 1.6 GHz CPU
• FSB	533 / 667 MHz
• BIOS	Award 8 Mbit Flash BIOS
• System Chipset	Intel® 945GSE / ICH7-M
• I/O Chip	ITE 8712F
• System Memory	Optional Onboard 1 GB DDR2, one 200-pin DDR2 SODIMM supports up to 2 GB 400/533 SDRAM (1GB per bank)
• SSD	One CompactFlash Type I/II socket, Master/Slave by 2.0 mm jump
• Watchdog Timer	Reset: 1~65535 sec./min. and 1 min./step
• Expansion	One Mini PCI, one optional Mini PCIe

I/O

• MIO	1 x EIDE by 44-pin IDE connector, Master/Slave by 2.0 mm jump, 2 x SATA, 2 x RS-232/422/485 (setting by BIOS), 4 x RS-232 (pin header), 1 x K/B & Mouse (Co-lay with LAN2)
• IrDA	Supports one IrDA Tx/Rx header
• USB	6 x USB 2.0 ports (2 x Edge connectors, 4 x pin header)
• DIO	16-bit General Purpose I/O for DI and DO
• TV-out	Intel 945GSE integrated TV-out interface

Display

• Chipset	Intel® 945GSE integrated GMA950 graphics
• Display Memory	Intel® DVMT 3.0 supports up to 224 MB shared video memory
• Resolution	CRT mode: 2048 x 1536 @ 75 Hz LCD mode: 1600 x 1200 @ 60 Hz
• Multiple Display	CRT + SDVO (DVI or 1 x 24-bit LVDS), CRT + TV-out, CRT + LVDS (2 x 18-bit)
• LVDS	Dual channel 18-bit; Optional Chrontel CH7308 SDVO to 2 x 18/24-bit LVDS transmitter
• DVI	Optional Chrontel CH7307 SDVO to DVI transmitter

Audio

• Chipset	Intel® ICH7-M
• AC97 Codec	Realtek ALC655 supports 5.1-CH Audio
• Audio Interface	Mic in, Line in, Speak out

Ethernet

• LAN	Dual Marvell 88E8053 Gigabit Ethernet, Supports Wake on LAN
• Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Touch Screen Interface (Optional)

• Chipset	ETP-CP-S458XRU
• Touch Screen Interface	Screen Interface : With 10-pin 2.54mm pin header (can be selected to support 4/5/8-wire touch screen)

Mechanical & Environmental

• Power Requirement	TBD
• Power Type	AT Single +12V / ATX
• Operating Temperature	0~60°C (32~140°F)
• Operating Humidity	0%~90% relative humidity, non-condensing
• Size (L x W)	8" x 5.75" (203 mm x 146 mm)
• Weight	0.88lb (0.4kg)

Ordering Information

- **EBM-945GSE**
5.25" Intel® 945GSE Atom™ N270 Mini Module with onboard 1 GB DDR2 SDRAM, extra SODIMM, VGA, LVDS, 2 SATA, 6 USB, 6 COM, 16-bit GPIO
- **ACC-CF-xx**
CompactFlash Card Series (xx = Capacity, Capacity Option: 128, 256, 512 MB, 1, 2, 4, 8 GB)