

EmModule-7313



Intel® Atom™ N270 PC/104-Plus CPU Module



Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N270 Processor
- Integrated Gigabit Ethernet
- Dual Channels 18-bit LVDS, and Analog RGB
- **Wide Range Operating Temp.: -40 ~ 85°C**

System

CPU	Soldered onboard Intel® Atom™ N270 1.6GHz processor with 533MHz FSB
Memory	1 x 200-pin DDR2 SO-DIMM Socket, supporting 533MHz SDRAM up to 2GB
Chipset	Intel® 945GSE + ICH7M
BIOS	Phoenix-Award PnP Flash BIOS
Watchdog Timer	1~255 levels reset

I/O

I/O Chip	Primary: Winbond W83627 Secondary: Winbond W83977
Serial Port	4 x COM ports (3 x RS-232, 1 x RS-232/422/485 selectable)
Parallel Port	SPP/EPP/ECP mode selectable
USB Port	4 x USB 2.0 ports
KB/MS	One 1 x 6 wafer connector for PS/2 interface for keyboard and mouse
Digital I/O	16-bit programmable Digital Input/Output, 8 in/8 out
Expansion Bus	PC/104-Plus interface
Storage	1 x Ultra ATA, supporting 1 IDE device and 1 CF Socket 2 x Serial ATA ports with 150MB/s HDD transfer rate

Ethernet Chipset	1 x Realtek RTL8103EL PCIe 10/100Base-T Ethernet controller 1 x Realtek RTL8110SCL PCI Gigabit Ethernet controller
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Audio Interface	Realtek ALC655 6 Channel AC97 CODEC, Mic-in/Line-in/ Line-out
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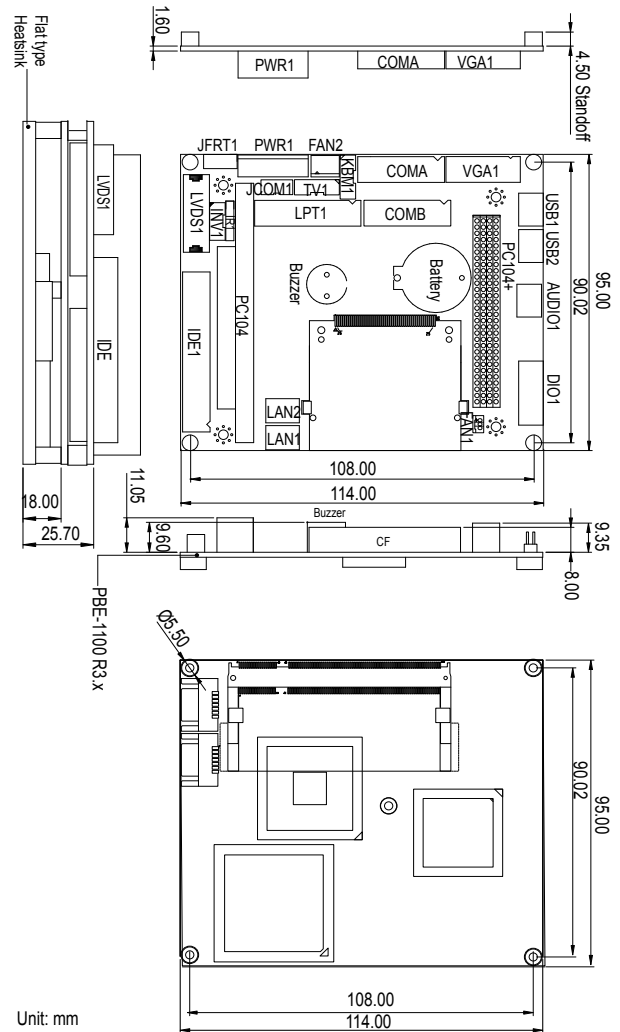
Display

Graphics Chipset	Integrated Intel® Graphics Media Accelerator 950
Graphics Interface	Analog RGB supports up to 2048 x 1536 @60Hz LCD: Dual channels 18-bit LVDS, up to 1600 x 1200

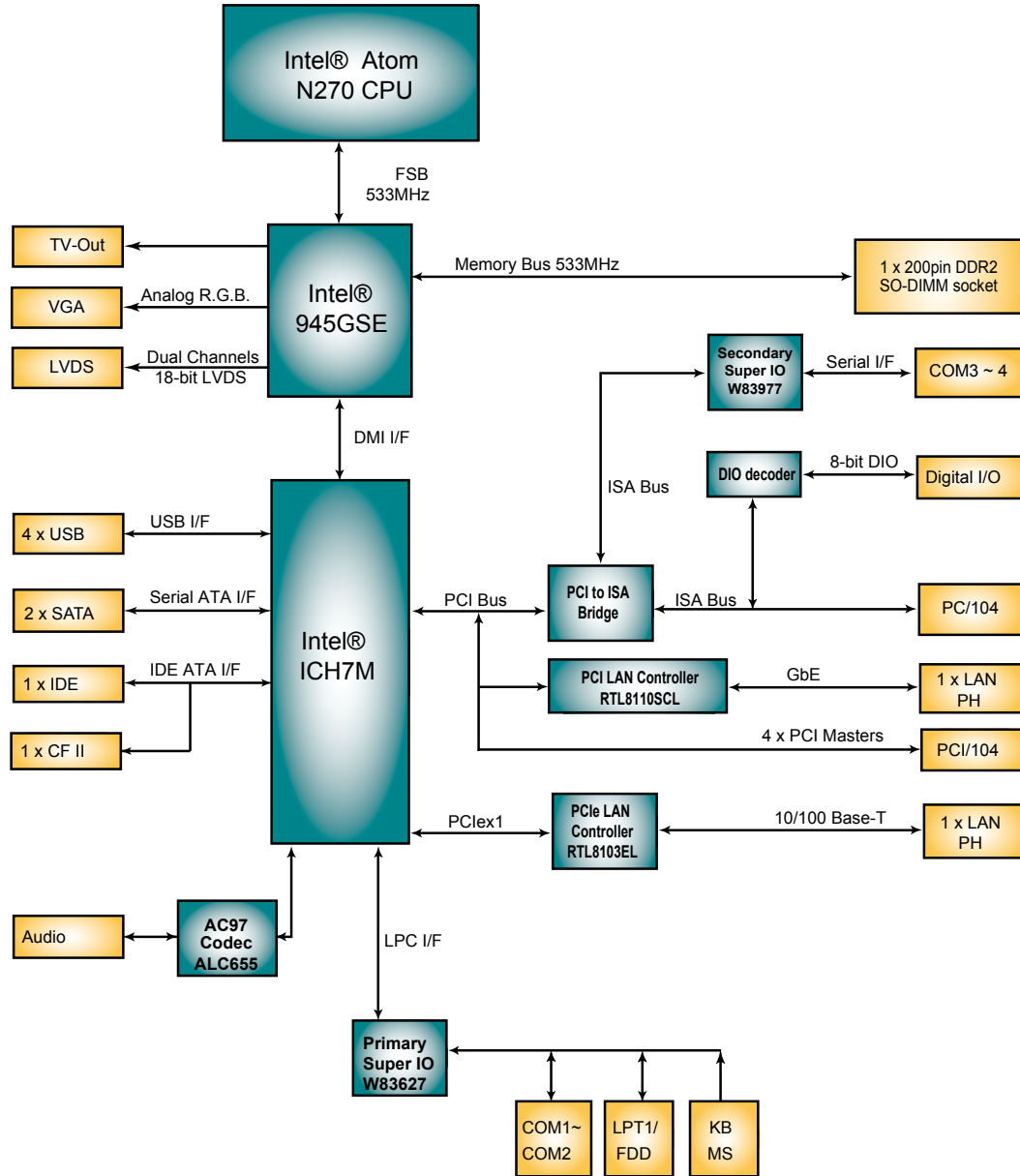
Mechanical & Environmental

Power Requirement	+5V, +12V
Power Consumption	2.77A@+5V, 0.04A@+12V (Typical)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	114 x 95 mm (4.5" x 3.7")

Dimensions



Block Diagram



Ordering Information

EmModule-7313-RG	ETX-735E ETX CPU module + PBE-1100-RG R3.3 ETX carrier board
HS-0735-F1	Heat spreader (114 x 95 x 18mm)
CBK-16-1100-01	Cable kit for PBE-1100 R3.3 1 x Audio cable 2 x USB cables 2 x COM port cables 2 x SATA cables 1 x IDE cable 1 x LPT cable 2 x Ethernet cables 1 x VGA cable 1 x KB & MS cable 1 x LPT to FDD cable 1 x Power cable (4 wires) 1 x Power cable (2 wires)