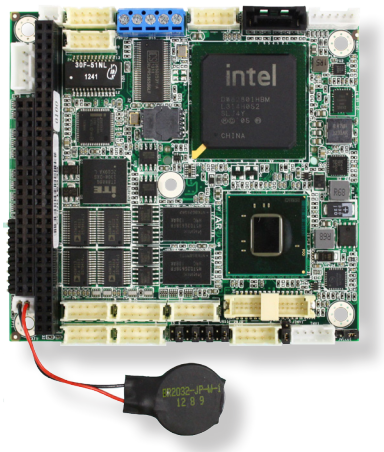
EmModule-749E

Wide-Range Temperature Intel® Atom™ Processor N455 PC/104 SBC



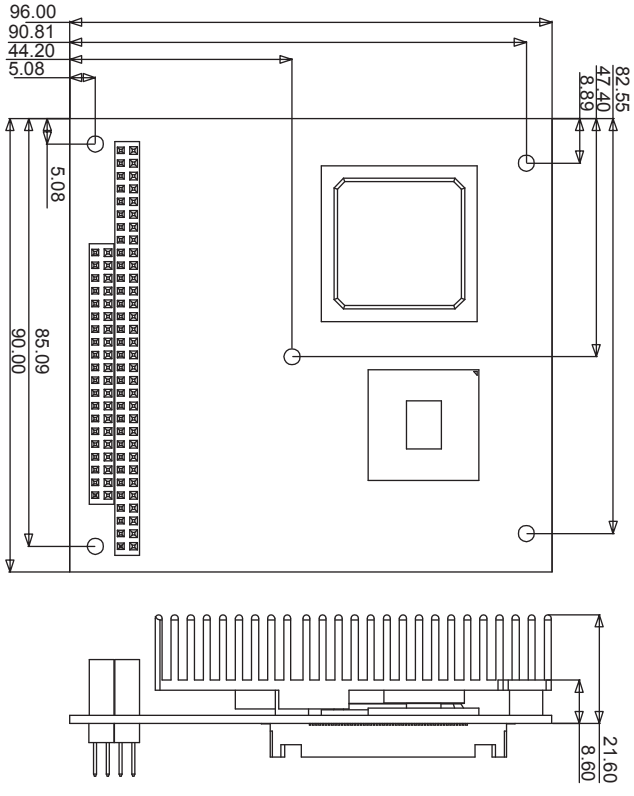
Features

- **Fanless Design**
- Soldered onboard Intel® Atom™ Processor N455
- Dual Gigabit Ethernet Ports
- Single Channel 18-bit LVDS and Analog RGB
- Four Full RS-232/485 selectable (RS-485 with Auto-flow Control)
- **Wide-Range Operating Temp.: -40 ~ 85°C**

System	
Processor	Soldered onboard Intel® Atom™ Processor N455 1.66GHz
Chipset	Intel® ICH8M
Memory	Soldered onboard 1GB DDR3 SDRAM
BIOS	AMI BIOS
Watchdog Timer	1 ~ 255 levels reset
I/O	
Super IO chipset	Fintek F81866
Serial Port	4 x RS-232/485 selectable
Keyboard & Mouse	6-pin wafer connector for keyboard and mouse
USB 2.0	2 x USB 2.0 ports
Expansion	PC/104 interface
Storage	1 x Serial ATA port with 300MB/s HDD transfer rate
	1 x CompactFlash Type II socket
Ethernet Chipset	2 x Intel® 82583V PCIe GbE controllers
Display	
Graphic Chipset	Integrated Intel® GMA 3150
Graphic Interface	Analog RGB/DVI: Analog RGB, with resolution up to 2048x1536
	LCD: Single Channel 18-bit LVDS, with resolution up to 1366x768
OS Support	
Windows 2000 32-bit Windows XP 32-bit	

Mechanical & Environmental	
Power Requirement	DC 5V, (+12V for LCD panel)
Power Consumption	2.4A@5V (Typical)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10%~95% @ 85°C (non-condensing)
Dimension (L x W)	95.89 x 90.17 mm (3.775" x 3.549")

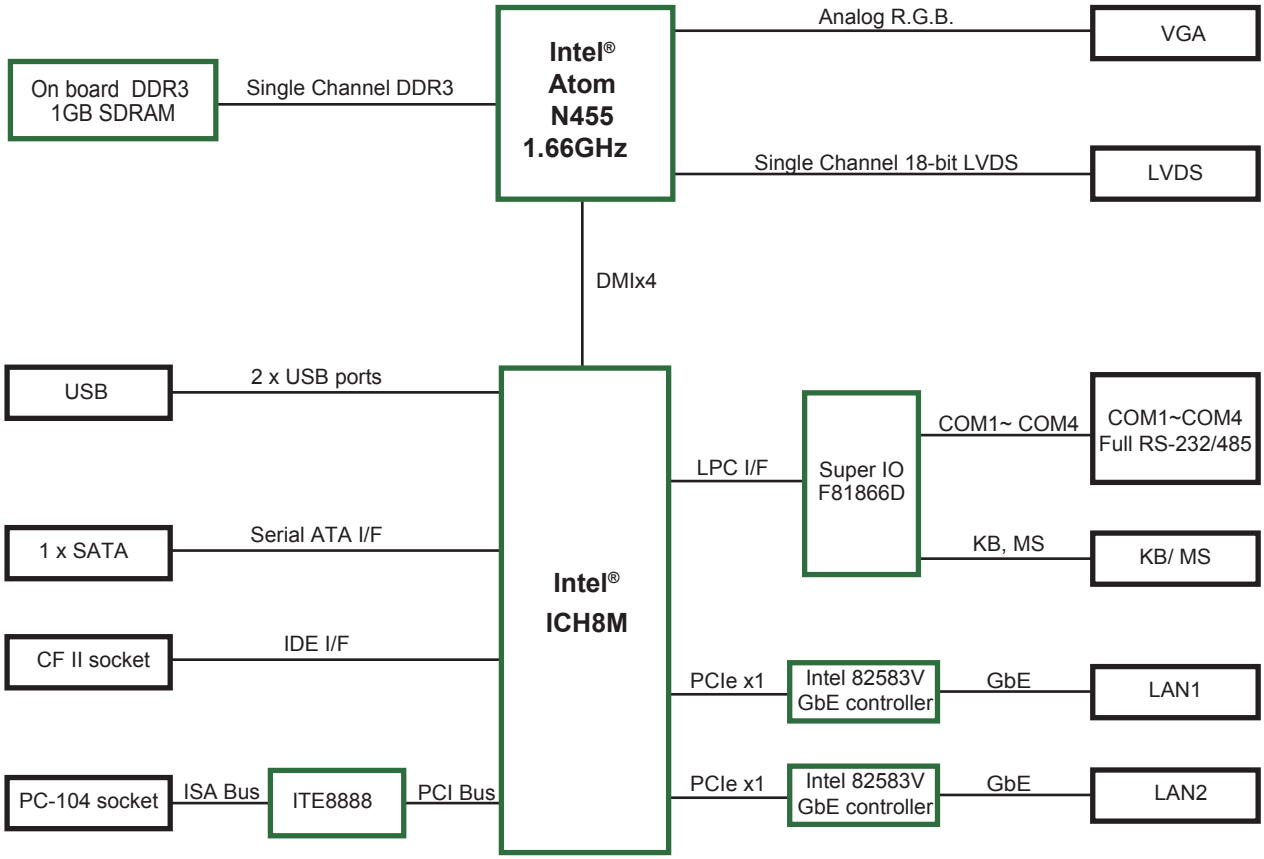
Dimensions



Unit: mm

Mainboard & Chassis

Block Diagram



Ordering Information

EmModule-749E-N4 (BTO)	Intel® Atom™ Processor N455/ ICH8M WT PC/104 CPU module

Optional Accessories

CBK-11-290K-00	Cable kit 1 x SATA cable 1 x SATA power cable 4 x Serial port cables 1 x KB/MS Y-cable 1 x USB cable 1 x VGA cable 2 x LAN cables