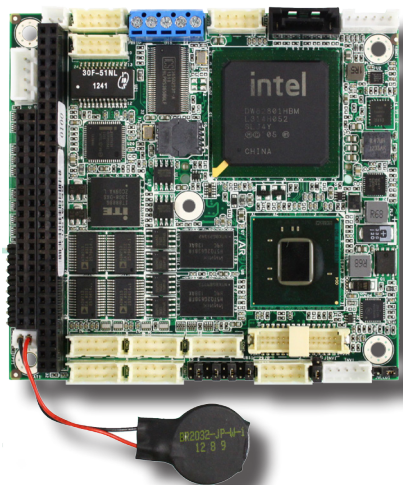


EmModule-749E



Intel® Atom™ N455 PC/104 CPU Module



Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N455 Processor
- Dual Gigabit Ethernet Ports
- 18-bit LVDS and Analog RGB
- Four Full RS-232/485 Selectable (RS-485 with Auto Flow Control)
- **Extended Operating Temp.: -40 ~ 85°C**

System

CPU Soldered onboard Intel® Atom™ N455 1.66GHz processor

Memory Soldered onboard 1GB DDR3 SDRAM

Chipset Intel® ICH8M

BIOS AMI PnP Flash BIOS

Watchdog Timer 1 ~ 255 levels reset

I/O

I/O Chipset Fintek F81866

Serial Port 4 x RS-232/485 selectable ports (RS-485 with auto flow control)

USB Port 2 x USB 2.0 ports

KB/MS 6-pin wafer connector for keyboard and mouse

Expansion Bus 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® Graphics Media Accelerator 3150

Graphic Interface Analog RGB that supports resolution up to 2048 x 1536

LCD: Single Channel 18-bit LVDS

Mechanical & Environmental

Power Requirement +5V (Additional +12V might be required for LCD panel)

2.4A@+5V (Typical)

Power Consumption

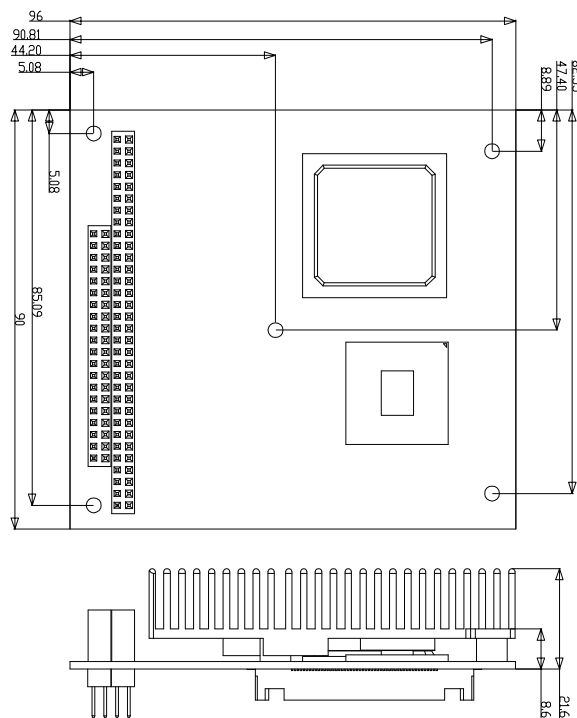
3.28A@+12V (SATA power require for HDD)

Operating Temp. -40 ~ 85°C (-40 ~ 185°F)

Operating Humidity 10%~95% @ 85°C (non-condensing)

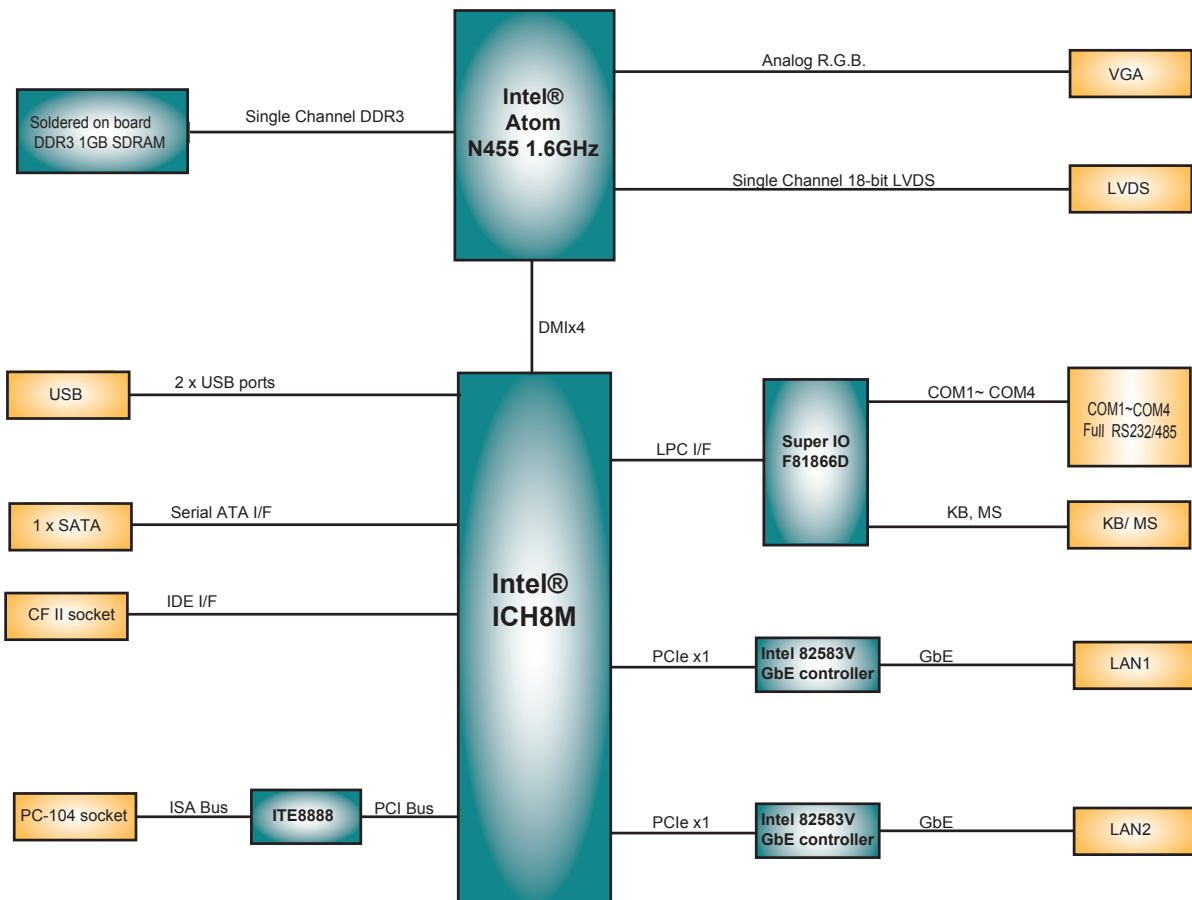
Dimension (L x W) 95.89 x 90.17 mm (3.775" x 3.549")

Dimensions



Unit: mm

Block Diagram



Ordering Information

EmModule-749E-N4 Intel® Atom™ N455 PC/104 CPU module

Optional Accessories

CBK-11-290K-00

- Cable kit
- 1 x SATA cable
 - 1 x SATA power cable
 - 4 x COM-port cables
 - 1 x KB & MS Y-cable
 - 1 x USB cable
 - 1 x VGA cable
 - 2 x LAN cables