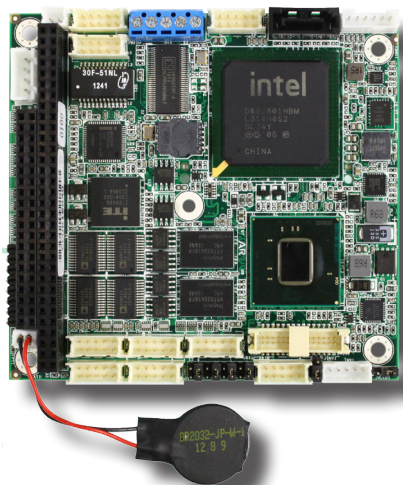


# EmModule-749E



## 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

<b>CPU</b>	Soldered onboard Intel® Atom™ N455 1.66GHz processor
<b>Memory</b>	Soldered onboard 1GB DDR3 SDRAM
<b>Chipset</b>	Intel® ICH8M
<b>BIOS</b>	AMI PnP Flash BIOS
<b>Watchdog Timer</b>	1 ~ 255 levels reset

### I/O

<b>I/O Chipset</b>	Fintek F81866
<b>Serial Port</b>	4 x RS-232/485 selectable ports (RS-485 with auto flow control)
<b>USB Port</b>	2 x USB 2.0 ports
<b>KB/MS</b>	6-pin wafer connector for keyboard and mouse
<b>Expansion Bus</b>	PC/104 interface
<b>Storage</b>	1 x Serial ATA port with 300MB/s HDD transfer rate 1 x CompactFlash Type II socket
<b>Ethernet Chipset</b>	2 x Intel® 82583V PCIe GbE controllers

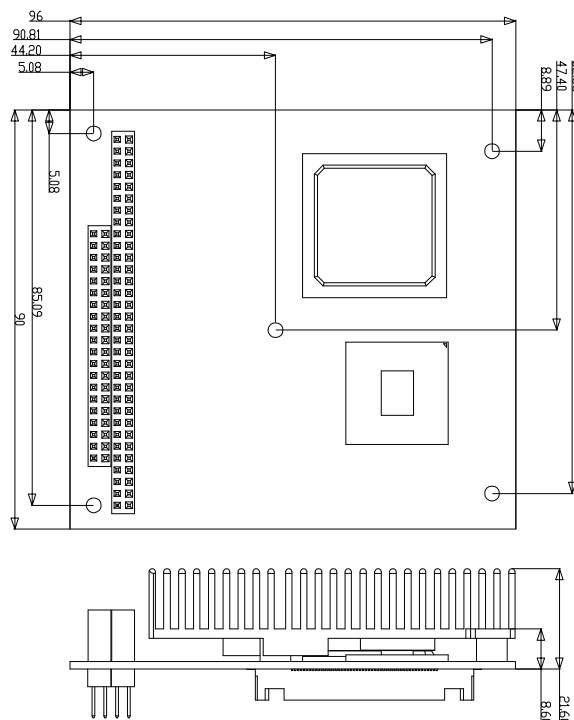
### Display

<b>Graphic Chipset</b>	Integrated Intel® Graphics Media Accelerator 3150
<b>Graphic Interface</b>	Analog RGB that supports resolution up to 2048 x 1536 LCD: Single Channel 18-bit LVDS

### Mechanical & Environmental

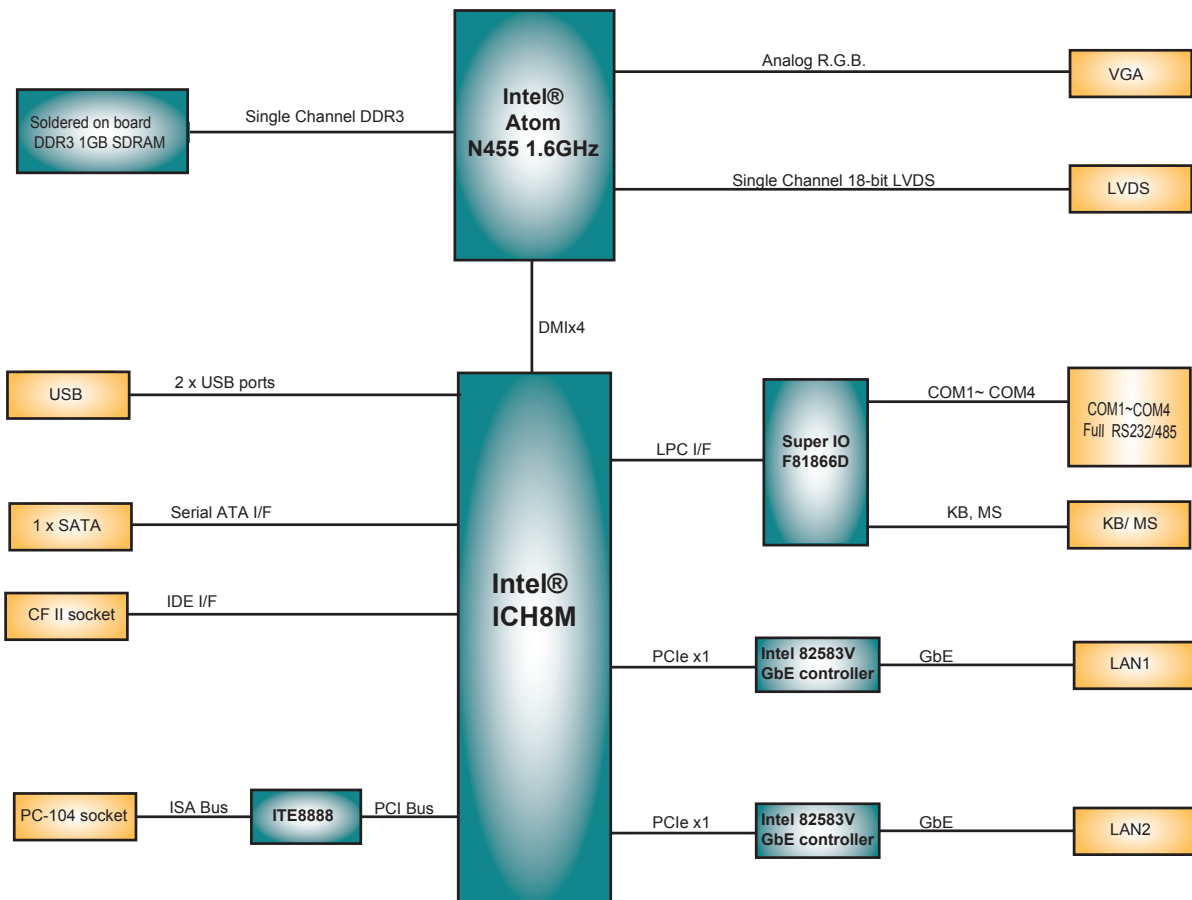
<b>Power Requirement</b>	+5V (Additional +12V might be required for LCD panel)
<b>Power Consumption</b>	2.4A@+5V (Typical) 3.28A@+12V (SATA power require for HDD)
<b>Operating Temp.</b>	-40 ~ 85°C (-40 ~ 185°F)
<b>Operating Humidity</b>	10%~95% @ 85°C (non-condensing)
<b>Dimension (L x W)</b>	95.89 x 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

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[cab-Pico-ITX-LVDS](#) [PCL-101100SB-2E](#) [AXXSTCBLQAT](#) [NT31C-KBA05](#) [PCL-101100M-2E](#) [A2U4PSWCXCXK1](#) [2 port SATA to 5](#)  
[pin,L=200mm](#) [P782-006-DH](#)