

# SBC



## EB-821LF

3.5" SBC with Intel® Atom™  
Atom™ N450 / VGA /  
Audio / 2LAN / LVDS

### Features and Benefits:

- 3.5" SBC support Intel® Atom™ processor N450 Single Core 1.66 GHz + ICH8M
- Intel® Gen 3.5 DX9, MPEG2 Decode in HW, multiple display with CRT & 18-bit LVDS
- Supports dual Giga Ethernet ports
- Memory supports one SO-DIMM socket , up to 2GB single channel 667MHz DDR2 memory
- Support Compact Flash and PC/104



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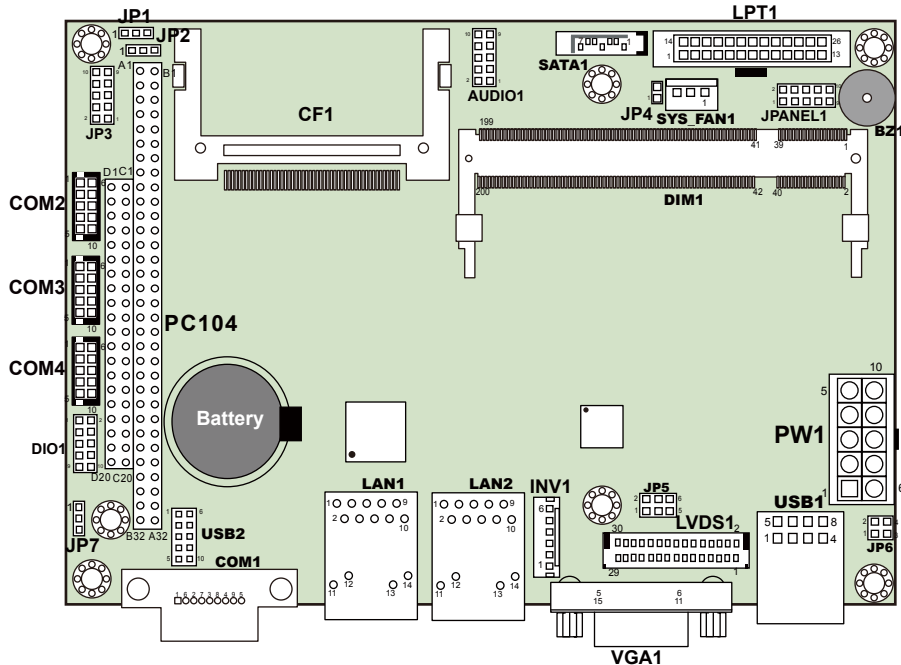
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3.5" SBC with Intel® Atom™ N450 / VGA / Audio / 2LAN / LVDS



## Specifications

System	
<b>CPU Type</b>	Intel® Atom™ N450 1.66GHz processor
<b>CPU Frequency</b>	1.66GHz
<b>Chipset</b>	ICH8M + SPI
<b>DRAM</b>	1 x 200-pin DDR2 SO-DIMM socket , support single channel 667MHz DDR2 memory up to 2GB
<b>BIOS</b>	AMI BIOS, with VGA BIOS
<b>Watchdog</b>	1~255 secs Watchdog timer selectable w / Reset / NMI
<b>Power Supply</b>	Support ATX/AT Power
<b>Power Requirement</b>	+5V
<b>Power Consumption</b>	+5V : 2.41A
<b>Dimension</b>	102mm x 145mm (4.02" x 5.71")
<b>Certificate</b>	FCC / CE

## I/O Chipset

<b>SATA Interface</b>	1 x SATA connector
<b>SSD</b>	1 x CF
<b>Expansion BUS</b>	1 x PC/104
<b>Serial Port</b>	4 x COM port, 16550 UARTs RS-232 COM 1/3/4 for RS-232, COM 2 for RS-232/422/485 COM 1 : D-SUB on edge COM2/3/4 : with Box-header on board
<b>Parallel Port</b>	1 x Parallel port (SPP / EPP / ECP)
<b>Audio</b>	High Definition Audio; Realtek ALC888 support Line-in/Line-out/MIC with pin-header on board

<b>LAN</b>	Dual Ports Lan 1 : Realtek 8111DL 1000BaseT Ethernet Lan 2 : Intel® 82567V 1000BaseT Ethernet RJ-45 connector on edge; supports Wake-on-LAN with ATX power
<b>USB</b>	4 ports, support USB 2.0 2 ports stack connector on edge 2 ports with Box-header on board
<b>DIO</b>	4-in / 4-out

## Display

<b>Graphics</b>	Build-in N450, share system memory; Support CRT (up to SXGA: 1400 x 1050), LVDS
<b>LCD Interface</b>	18-bit Single channel LVDS up to WXGA 1366 x 768

## Environment

<b>OperationTemp.</b>	0°~60°C (32°~140°F)
<b>Storage Temp.</b>	-40°~85°C (-40°~185°F)
<b>Humidity</b>	Operation humidity 20~90%, Storage humidity 20~95%

## Ordering Information

<b>27-006-00006113</b>	USB cable
<b>27-008-06109031</b>	SATA cable
<b>27-028-00009003</b>	Audio cable
<b>27-004-00006031</b>	LPT cable
<b>27-024-12203033</b>	Single com port cable
<b>27-012-77202071</b>	20-pin ATX Power to SBC (10-pin)

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