

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



Protech Systems Co., Ltd.

No. 24, Lane 365, Yang Goang Street, Nei Hu District Taipei 114, Taiwan
TEL: +886-2-8751-1111 FAX: +886-2-8751-1199
E-mail: sales@protech.com.tw
<http://www.protech.com.tw>

Protech Technologies Inc.

950 Fee Ana St, Suite B Placentia, CA 92870
TEL: +1-714- 996-7200 FAX: +1-714- 996-7300
Sales: sales@protech-usa.net
<http://www.protech-usa.net>

Protech Japan Co., Ltd.

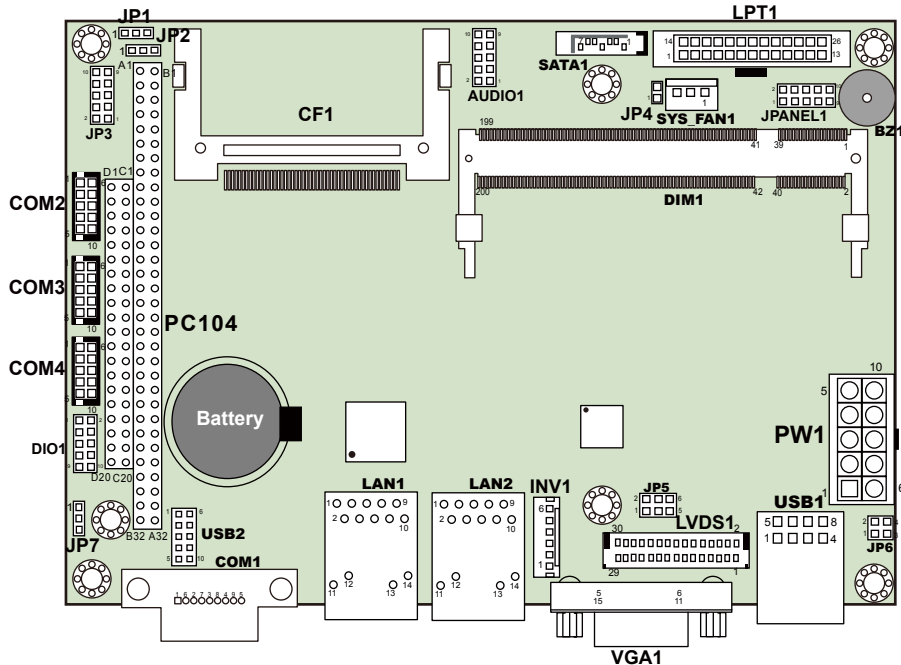
OSK Bldg, 6F, 6-25-14, Minami-ohi Shinagawa-ku, Tokyo, 140-0013
TEL: +81-3-5753-8411 FAX: +81-3-3763-9282
E-mail: sam@protech-j.com
<http://www.protech-j.com>



ISO CERTIFIED
9001 14001

EB-821LF

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



Specifications

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

I/O Chipset

SATA Interface	1 x SATA connector
SSD	1 x CF
Expansion BUS	1 x PC/104
Serial Port	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
Parallel Port	1 x Parallel port (SPP / EPP / ECP)
Audio	High Definition Audio; Realtek ALC888 support Line-in/Line-out/MIC with pin-header on board

LAN	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
USB	4 ports, support USB 2.0 2 ports stack connector on edge 2 ports with Box-header on board
DIO	4-in / 4-out

Display

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

Environment

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

Ordering Information

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

All of trademarks and brand names are the property of their owners. Trademark "Protech" is the property of Protech Systems Co., Ltd. All information contained in this document is subject to change without any prior notice. This catalog is copyrighted in May 2010.