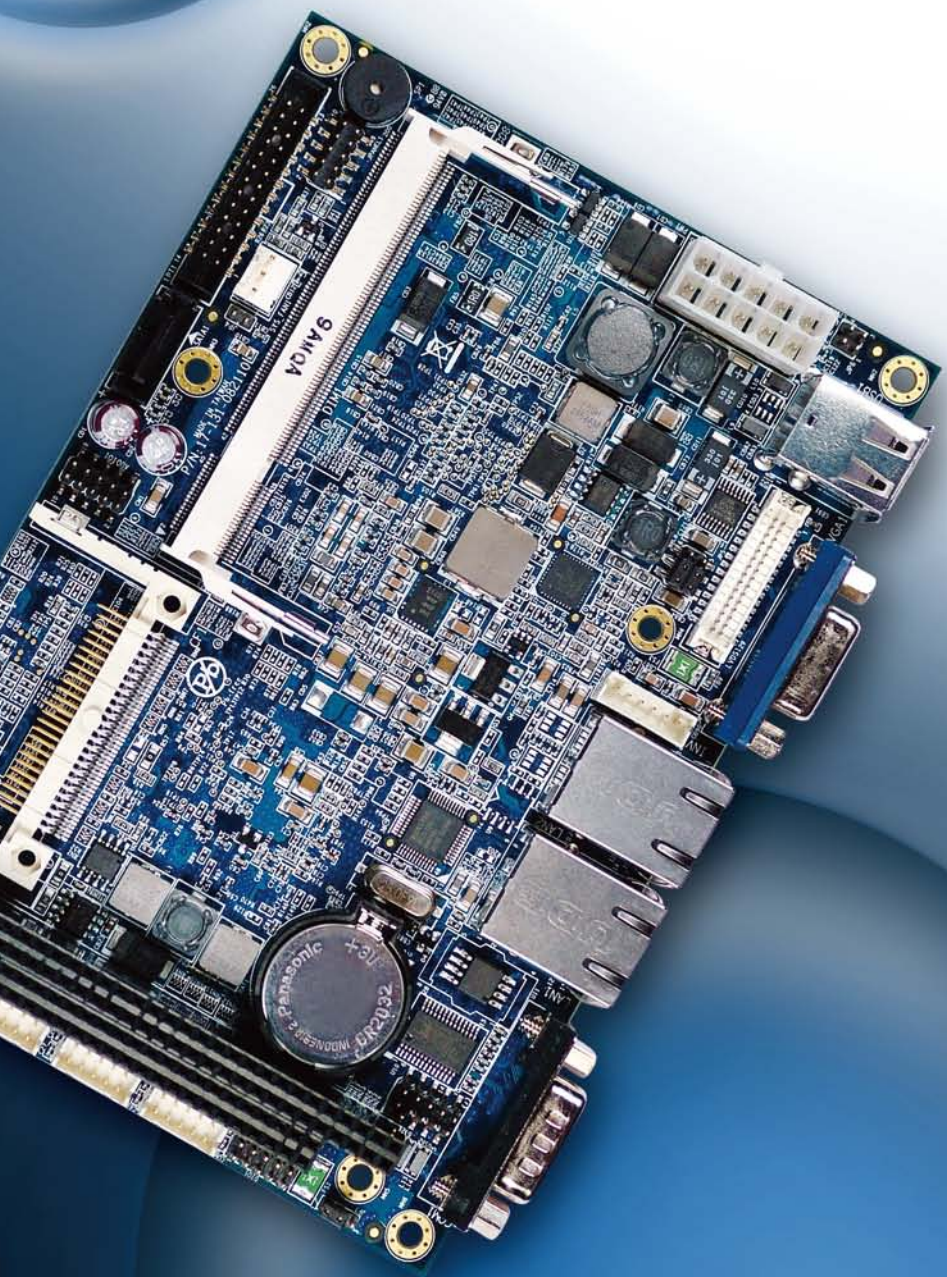


SBC



EB-821LF

3.5" SBC with Intel® Atom™ N455 / VGA / Audio / 2LAN / LVDS

Features and Benefits:

- 3.5" SBC support Intel® Atom™ processor N455 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.

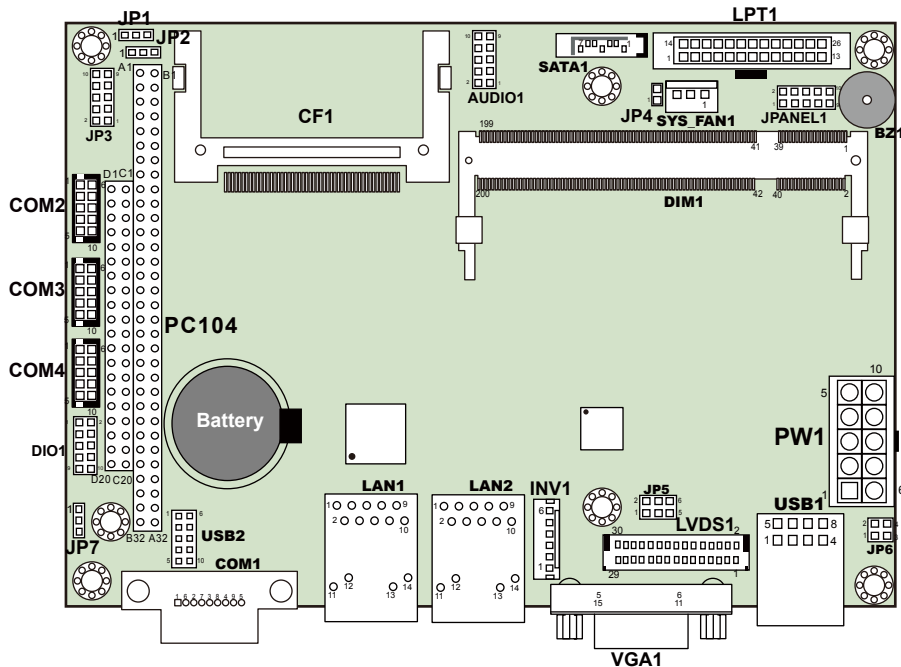
OSK Bldg, 6F, 6-25-14, Minami-ohi Shinagawa-ku, Tokyo, 140-0013
TEL: +81-3-5753-8411 FAX: +81-3-3763-9282
E-mail: sam@protech-j.com
<http://www.protech-j.com>



ISO CERTIFIED
9001 14001

EB-821LF

3.5" SBC with Intel® Atom™ N455 / VGA / Audio / 2LAN / LVDS



Specifications

System

CPU Type	Intel® Atom™ N455 1.66GHz processor
CPU Frequency	1.66GHz
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 (+5V only provide power for SBC, don't have enough power to support expansion card.)
Power Consumption	+5V : 2.41A
Dimension	102mm × 145mm (4.02" × 5.71")
Certificate	FCC / CE

I/O Chipset

SATA Interface	1 x S-ATA connector
SSD	1 x CF
Expansion BUS	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)

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

Audio

High Definition Audio; Realtek ALC888 support

USB

Line-in/Line-out/MIC with pin-header on board
4 ports, support USB 2.0
2 ports stack connector on edge

D/I/O

2 ports with Box-header on board
4-in / 4-out

Display

Graphics

Build-in N455, 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

Operation Temp. 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

EB-821LF	3.5" SBC with Intel® Atom™ N455 / VGA / Audio / 2LAN / LVDS
-----------------	---