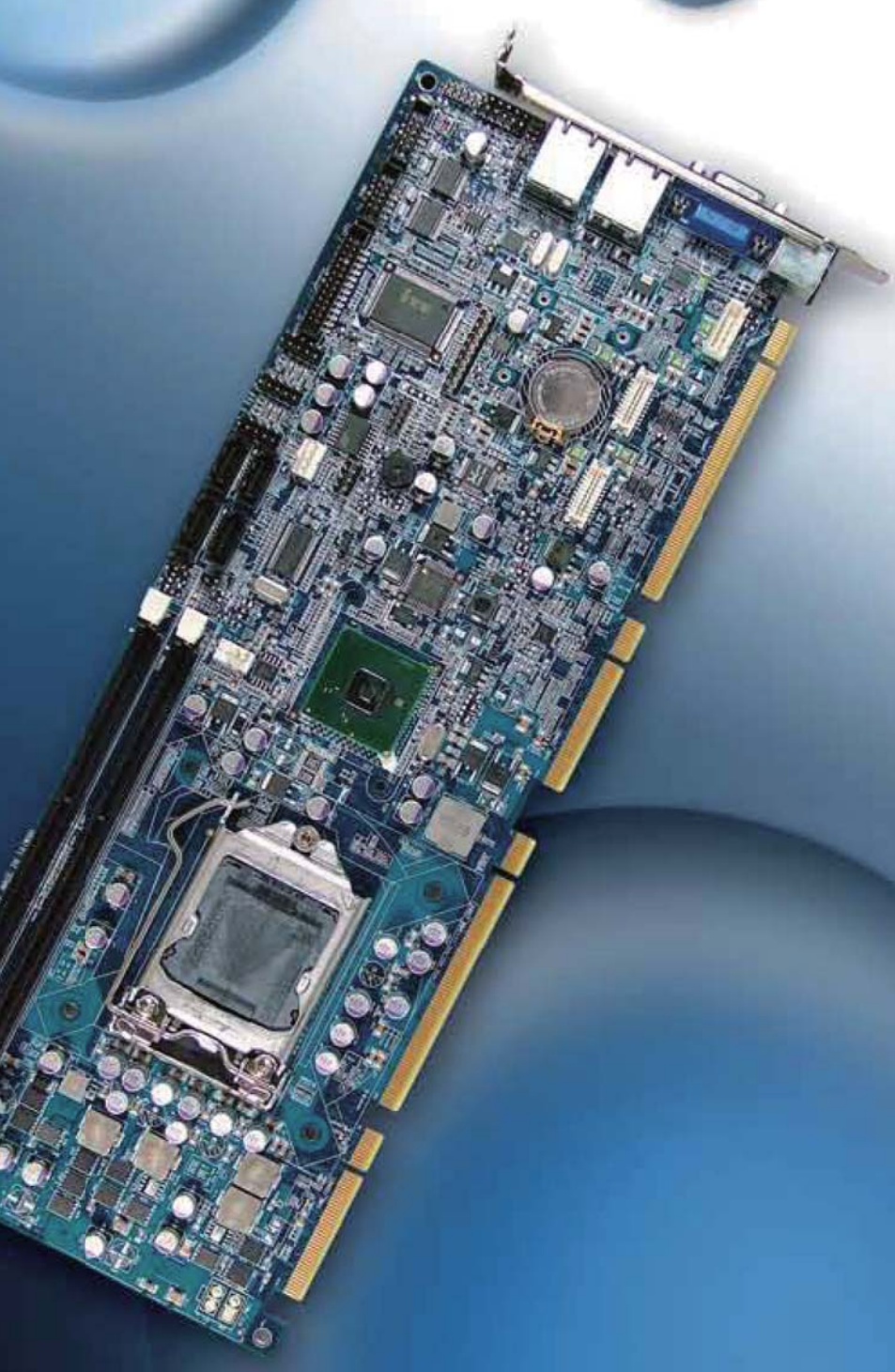


SBC



PSB-831LF

2nd Gen. Intel® Core™
i5/ i7 mobile CPU
PICMG 1.3 full size
CPU Card w/
VGA/Sound/2LAN

Features :

- Support 2nd Gen. Intel® Core™
i5/ i7 mobile processors
- Equipped with Intel® QM67
Chipset
- Memory Supports DDR3 1066/ 1333
SDRAM up to 8GB
- Supports 2 x Gigabit Ethernet
Connection, PICMG 1.3
compliance
- Supports Trusted Platform Module
Applications such as ATM,
multimedia systems, digital image
storage servers and more



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.

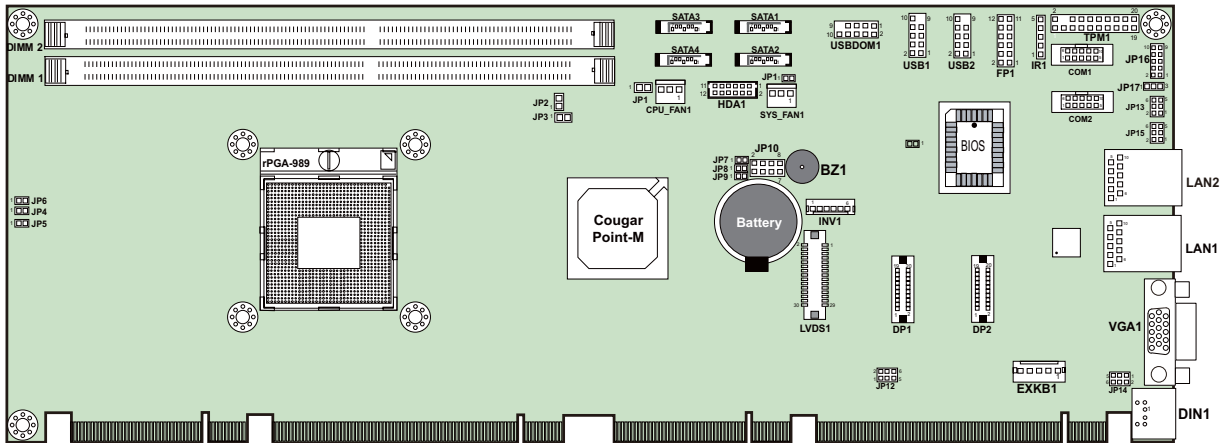
OSK Bldg, 6F, 6-25-14, Minami-ohi Shinagawa-ku,
Tokyo, 140-0013
TEL: +81-3-5753-8411 FAX: +81-3-3763-9282
E-mail: sam@protech-j.com
<http://www.protech-j.com>



ISO CERTIFIED
9001 14001

PSB-831LF

2nd Gen. Intel® Core™ i5/ i7 mobile CPU PICMG
1.3 full size CPU Card w/ VGA/Sound/2LAN



Specifications

System

CPU Support	2nd Gen. Intel® Core™ i5/ i7 Mobile Processors (Sandy Bridge-M CPU)
CPU Frequency	i7-2710QE: 2.1GHz, i5-2510E: 2.5GHz
Chipset	Intel® QM67
DRAM	2 x 240-Pin DDR3 DIMM, support Dual channel memory architecture and DDR3 1066/1333MHz up to 8GB
BIOS	AMI
Watchdog	1~255 secs Watchdog timer selectable w/Reset/NMI
Power Supply	Support ATX power
Power Requirement	+5V, +12V, +3.3V, +5Vsb
Dimension	338.5mm x 126mm (13.33" x 4.96")
Certificate	FCC / CE

I/O Chipset

SATA Interface	6 x S-ATA II connector (Raid 0, 1, 5, 10) 4 ports on board; 2 ports signals via SHB C to backplane
Expansion BUS	Mini PCIe
TPM	TPM1.2 1 with 20-pin header on board for TPM (Trusted Platform Module)
Serial Port	2 x COM port, COM 1 for RS232, COM 2 for RS232/422/485 (for 16550 compatible type of UART)
Parallel Port	1 x parallel port (SPP / EPP / ECP)

Keyboard	Mini DIN connector or external connector
Mouse	Mini DIN connector (selectable w / KB) or Y-cable
LAN	LAN 1: Intel® 82579 (GbE) LAN 2: Intel® 82583V (GbE) Support Wake-on-LAN with ATX power
Audio	Support HD Audio daughter board
USB	12 x USB 2.0 8 ports pinheader on board; 4 ports signals via SHB C to backplane

Display

Graphic	Build-in Intel® QM67, Support CRT, DP CRT: built-in QM67 DP: 2 ports, built-in QM67 1 x PCIe (16x) for external graphic card
LCD Interface	24/48 bit LVDS

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

PSB-831LF	PICMG 1.3 2nd Gen. Intel® Core™ i5/ i7 mobile CPU Card w/ VGA, Audio, 2COM, 2LAN (10/100/1000Mbps)
------------------	--

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 2011.