

SBC

PSB-831LF

2nd Gen. Intel® Core™
Mobile CPU PICMG 1.3
Full Size CPU Card w/
VGA/ Sound/ 2LAN

Features :

- Support 2nd Gen. Intel® Core™ 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



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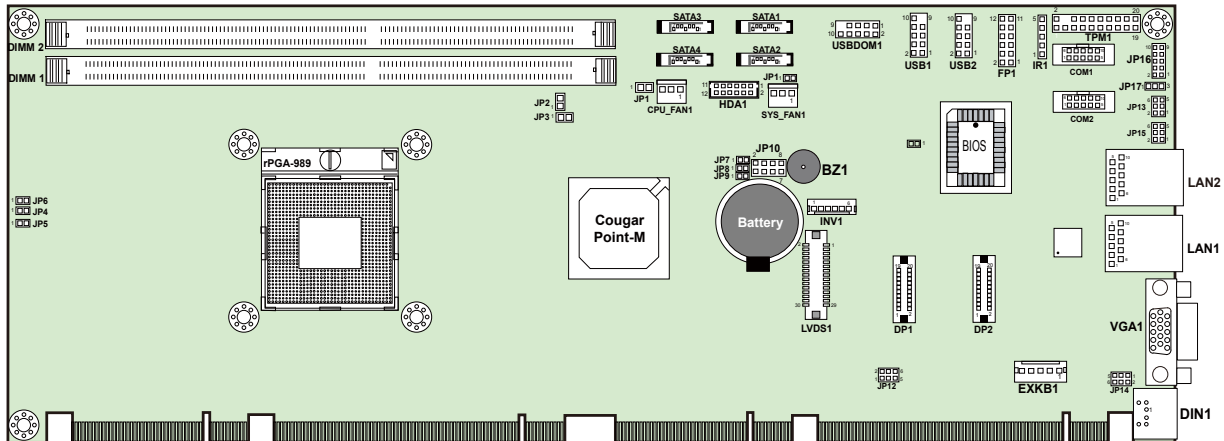
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ISO CERTIFIED
9001 14001

PSB-831LF

2nd Gen. Intel® Core™ Mobile CPU PICMG 1.3 Full Size CPU Card w/ VGA/ Sound/ 2LAN



Specifications

System

CPU Support	2nd Gen. Intel® Core™ mobile processors (Sandy Bridge-M CPU)
CPU Frequency	i7-2710QE: 2.1GHz, i5-2510E: 2.5GHz, i3-2330E: 2.2GHz, Celeron®: 1.6GHz
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 7 ports pin-header on board, 1 port for mini-PCIe USB signal; 4 ports signals via SHB C to backplane

Display

Graphics	Build-in processor, share memory, Support: 1 x VGA 2 x display port 1 x PCIe (16x) for external graphic card (above features would depend on processor ability)
LCD Interface	24/48 bit LVDS

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

PSB-831LF	PICMG 1.3 2nd Gen. Intel® Core™ mobile CPU card w/ VGA/ Audio/ 2COM/ 2LAN (GbE)
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