

PEAK-7220VL2G

Full-size 64bit/66MHz PICMG SBC support Dual Socket 604 Intel® Xeon w/ VGA/Dual LAN

SPECIFICATIONS

System Architecture

Full size SBC with 64bit/66MHz
PCI/ISA Golden finger PCI V2.2 compliant
PICMG 1.0 (Rev.2.0) compliant

BIOS

Award System BIOS
Plug & Play support
Advanced Power Management support
ACPI 2.0 compliant
8M bits flash ROM

CPU

Support Socket 604 dual Intel Xeon / LV Xeon processors with 400/533MHz FSB, speed up to 3.06GHz+
On-board intelligent switching type power regulator x 2
Support streaming SIMD instruction
SMP support is requiring
Support uni-processor implementation
Support Hyper-Threading technology

Memory

Support max memory up to 8GB (DDR200/266), DDR SDRAM DIMM x4
Support two 64-bit DDR channels
Registered/ECC DIMMs only

Chipsets

Intel E7501 chipsets
Intel ICH3-S (82801CA)
Intel P64H2 (82870P2) x1
Intel Firmware Hub (FWH)
PCI V2.2 compliant

On Board LAN

Dual Intel 82545EM (PRO/100 MT Network Connection) Gigabit Ethernet controllers
Compliant with IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3y, IEEE802.3ab
WfM2.0, PC2001 compliant
RJ45 with LED connector x 2

On Board VGA

ATI Rage XL with 8MB frame buffer memory
Fully PC 98 and PC 99 Compliant
15 pin CRT connector x1

On Chip I/O (ICH3-S)

On board USB port x 4
SMBus 2.0 controller
FWH interface
LPC interface
AC' 97 2.0 interface
PCI 2.2 interface
USB 1.1 compliant
Integrated System Management Controller

On Board Super I/O

On board ITE 8712F-A super I/O

Anewtech Systems

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SPECIFICATIONS | EBC-363

SIO x 2, with 16C550 UART x 2, 10 pin header x 2
PIO x 1, bi-directional, EPP/ECP support, 26 pin connector x 1
Floppy Disk controller: 34 pin connector x 1
6 pin mini DIN connector x 1, for PS/2 keyboard/mouse, 5 pin connector x 1 (for external keyboard)
On Board buzzer x 1
GPIO (4 in 4 out)
On board 2 pin header for I2C;
On Board 2 pin header for reset SW / 2 pin for IDE active LED / 2 pin ATX power SW
One 3 pins power header for 3 pins power cable connect to backplane board to support ATX Power On function
On board 4 pin Additional Power Source Input
AC97 output, 10 pin header x 1

System Monitor

Derived from Super IO ITE 8712F-A to support system monitor
8 voltage (For +1.5V, +3.3V, +5V, -5V, +12V, -12V, Vcore and Vcc 5V Stand-By)
One Fan speed for CPU; Temperature x 2 (one for CPU internal use, another for external system use)

ACPI Function

Only when 3 pins Power cable connect to Backplane which connect with ATX Power
Source Soft Power off
Power-on by keyboard
Wake-up by LAN
Wake-up by Ring

Real Time Clock

On chip RTC with battery back up
External Li Battery x 1

Watchdog Timer

Watchdog timeout can be programmable by Software from 1,2,4,8,16,32,...256 seconds
Reserved 32 bit PCI interface for NEXCOM EBK module
PCI to ISA Bridge & ISAMAX Support
ITE 8888Fx1 PCI to ISA Bridge
Provide 64mA high driving capability to maximize ISA signals for support ISA cards up to 20 on the backplane ISA Slot

Dimensions

338.58 mm (L) x 122 mm (W)
13.3" (L) x 4.8" (W)

Customized Heat sink/FAN

Customized heat sink/FAN to cover dual processors
Height: 2U

Power Requirements

+5V: 25A
+12V: 20A
-12V: TBD

Environments

Operating temperatures: 0°C to 60°C (0°C to 50°C for 2.8GHz CPU)
Storage temperatures: -20°C to 80°C
Relative humidity: 10% to 90% (Non-condensing)

Certification

CE
FCC

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