

SB331-IPM Intel® Q67 microATX Board

PROCESSOR

- LGA 1155 socket for:
 - Intel® Core™ i7-2600 (3.4GHz, 95W)
 - Intel® Core™ i5-2400 (3.1GHz, 95W)
 - Intel® Core™ i3-2120 (3.3GHz, 65W)
 - Intel® Pentium® G850
- New microarchitecture on 32nm process technology
- Intel® Advanced Vector Extensions (Intel® AVX) Instructions
- Intel® Turbo Boost Technology

CHIPSET

- Intel® Q67 Express Chipset

SYSTEM MEMORY

- Two 240-pin DDR3 DIMM sockets
- Supports DDR3 1066/1333MHz
- Supports dual channel memory interface
- Supports up to 16GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

EXPANSION SLOTS

- 2 PCI Express Gen 2 x16 slots (PCIe 2.0)
 - 1 x16 signal and 1 x4 signal
- 2 PCI Express x1 slots (PCIe 2.0)

ONBOARD GRAPHICS FEATURES

- Intel® HD Graphics
- Display ports:
 - DVI-I (RGB and TMDs signals) - ASMedia 1442
 - HDMI (TMDs signal) - ASMedia 1442
- DVI and HDMI display resolution up to 1920x1200
- Supports 6 Graphics Execution Units (EUs)
- Intel® Clear Video Technology
- DirectX Video Acceleration (DXVA) support for accelerating video processing

ONBOARD AUDIO FEATURES

- Realtek ALC262 2-channel High Definition Audio
- DACs with 100dB SNR; two stereo DACs support 24-bit PCM format for stereo audio playback
- ADCs with 90dB SNR; three stereo ADCs support 20-bit PCM format for multiple input streaming
- S/PDIF audio interface

ONBOARD LAN FEATURES

- 1 Intel W82579LM with iAMT7.0 Gigabit Ethernet Phy (LAN1)
- 2 Intel W82574 PCI Express Gigabit Ethernet controllers (LAN2-3)
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Supports wire management

SERIAL ATA (SATA) INTERFACE

- 6 Serial ATA ports
 - 4 SATA 2.0 ports with data transfer rate up to 3Gb/s
 - 2 SATA 3.0 ports with data transfer rate up to 6Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller
- Supports RAID 0/1/5/10

INTEL ACTIVE MANAGEMENT TECHNOLOGY (AMT)

- Supports iAMT7.0
- Out-of-band system access
- Remote troubleshooting and recovery
- Hardware-based agent presence checking
- Proactive alerting
- Remote hardware and software asset tracking

TRUSTED PLATFORM MODULE (TPM) - optional

- Infineon SLB9635
- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

REAR PANEL I/O PORTS

- 2 DB-9 serial ports
 - Supports RS232/422/485
 - Pins 1 and 9 of RS232 functions as RS232 signal or power (selectable via jumper)
- 1 DVI-I port
- 1 HDMI port
- 3 RJ45 LAN ports
- 6 USB 2.0/1.1 ports

I/O CONNECTORS

- 4 connectors for 8 external USB 2.0/1.1 ports
- 1 PS/2 KB/Mouse connector
- 1 36-bit Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 S/PDIF connector
- 6 Serial ATA ports
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 chassis intrusion connector
- 1 front panel connector
- 2 fan connectors

BIOS

- AMI BIOS
- 64Mbit SPI BIOS

ENERGY EFFICIENT DESIGN

- Supports ErP Lot6 power saving (optional)
- Supports ACPI
- System Power Management
- Wake-On-Events include:
 - Wake-On-PS/2 KB/Mouse
 - Wake-On-USB KB/Mouse
 - Wake-On-LAN
 - RTC timer to power-on the system
- CPU stopped clock control
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors Vcore/5V/3.3V/V_DIMM/12V/5VSB voltages and failure alarm
- Monitors CPU/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

PCB

- microATX form factor
- 244mm (9.6") x 244mm (9.6")

