

SR100-N Intel® GM965 Mini-ITX Board

PROCESSOR

- Intel® Core™2 Duo mobile processor
 - 800/667MHz system data bus
- Processor socket: mPGA478P

CHIPSET

- Intel® chipset
 - Intel® GM965 Express chipset
 - Intel® 82801HEM I/O Controller Hub (ICH8M)

SYSTEM MEMORY

- Two 200-pin SODIMM socket
- Supports 533MHz and 667MHz DDR2 SDRAM
- Supports maximum of 4GB system memory

BIOS

- AMI BIOS
- 4Mbit SPI flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification 3.0
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 - Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB Keyboard/Mouse
 - Wake-On-LAN
 - Wake-On-Ring
 - RTC timer to power-on the system
- Enhanced Intel® SpeedStep Technology
- Intel® Rapid Memory power management
- Dynamic FSB frequency switching
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors CPU(V)/3.3V/5V/12V/VBAT(V)/3VSB(V) 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

ONBOARD GRAPHICS FEATURES

- Internal graphics feature
 - Mobile Intel® Graphics Media Accelerator X3100
 - Dynamic Video Memory Technology 4.0
 - Microsoft DirectX 9x
 - OpenGL 1.5
- Integrated graphics interface
 - Analog CRT
 - Integrated 300MHz RAMDAC
 - Analog monitor supports up to QXGA (2048x1536@60Hz)
 - LVDS
 - 25MHz-112MHz single/dual channel, TFT panel type support
 - 24bpp dual channel up to 2048x1536
 - DVI
 - DVI 1.0 support for external digital monitor

ONBOARD AUDIO FEATURES

- Realtek ALC262 2-channel High Definition Audio
- Two 24-bit stereo DACs and three 20-bit stereo ADCs
- S/PDIF input/output interface
- Meets Windows Vista Premium requirement

ONBOARD LAN FEATURES

- Two Realtek RTL8111 PCI Express Gigabit controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

- Three Serial ATA ports, compliant with SATA 1.0a specification
- Data transfer rate up to 3Gb/s
- Supports Advanced Host Controller Interface (AHCI)

IDE INTERFACE

- Supports up to two IDE devices
- Supports Ultra ATA 100/66/33

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 2 DB-9 serial ports
- 1 DB-15 VGA port
- 1 DVI port
- 2 RJ45 LAN ports
- 4 USB 2.0/1.1 ports
- Mic-in, line-in and line out jacks

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 LCD brightness control connector
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 LCD AUX power connector
- 1 DIO connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF connector
- 3 Serial ATA connectors
- 1 40-pin IDE connector
- 1 20-pin ATX power connector
- 1 front panel connector
- 1 chassis open connector
- 2 fan connectors

EXPANSION SLOTS

- 1 PCI slot for PCI expansion card or customized riser card for 1, 2 or 3 PCI slots expansion

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

PCB

- 8-layers, Mini-ITX form factor
- 17cm (6.7") x 17cm (6.47")

REAR PANEL I/O PORTS

