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### PROCESSOR

- Intel<sup>®</sup> Atom<sup>™</sup> N270 (Diamondville SC) processor
- 1.6GHz core frequency, 1.10V voltage
- 2.5W thermal design power • 512KB on-die second level cache
- 533-MT/s FSB
- 22x22 mm, 1.0 mm ball pitch and 437 balls FCBGA

### **CHIPSET**

- Intel® chipset
- Intel® 945GSE Graphics Memory Controller Hub (GMCH) - Intel® 82801GBM I/O Controller Hub (ICH7M)

#### SYSTEM MEMORY

- One 240-pin DDR2 DIMM socket
- Maximum memory supports up to 2GB
- Supports 400MHz and 533MHz DDR2 SDRAM

#### **EXPANSION SLOTS**

- 1 PCI Express x1 slot
- 1 PCI slot

#### **ONBOARD GRAPHICS FEATURES**

- 133/166MHz internal graphics core render frequency at 1.05V core voltage
- Supports 18-bit dual-channel LVDS
- Supports CRT resolutions up to SXGA+

#### **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

### **ONBOARD LAN FEATURES**

- Two Realtek RTL8111C 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**

- Two SATA ports with independent DMA operation sup-ported on ports 0 and 2
- Two-mode operation supports legacy mode using I/O space or an AHCI mode using memory space
- SATA and PATA can be used in a combined function mode (When SATA is used with PATA, AHCI mode is not supported.)

#### **IDE INTERFACE**

- Bus Master IDE (PATA) controller
- Supports up to two IDE devices
- Ultra ATA 100/66/33

#### **REAR PANEL I/O PORTS**

- 1 mini-DIN-6 PS/2 mouse port
- mini-DIN-6 PS/2 keyboard port
- 2 DB-9 serial ports
- 1 DB-15 VGA port
- 1 DVI-I port (DVI-D signal only) .
- 2 RJ45 LAN ports 4 USB 2.0/1.1 ports .
- Mic-in, line-in and line-out

### **I/O CONNECTORS**

- 1 CompactFlash socket
- 2 connectors for 4 additional external USB 2.0/1.1 ports

BRESSNER

- 2 connectors for 2 additional external serial ports
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector .
- 1 LCD AUX power connector
- 1 DIO connector
- front audio connector for line-out and mic-in jacks 1
- 1 CD-in internal audio connector .
- S/PDIF connector . 1
- . 2 Serial ATA connectors
- 1 40-pin IDE connector
- 20-pin ATX power connector • 1
- . 1 front panel connector
- 1 chassis intrusion connector
- . 1 fan connector

#### BIOS

- Award BIOS
- 8Mbit SPI interface BIOS

## **ENERGY EFFICIENT DESIGN**

- Supports ACPI specification 2.0/1.0
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
  - Wake-On-PS/2 Keyboard/Mouse
- Wake up by PCI card
- PCI Express PME
- USB KB/MS wake up from S3
- Wake-On-Ring
- RTC timer to power-on the system
- Enhanced Intel® SpeedStep Technology
- AC power failure recovery

## DAMAGE FREE INTELLIGENCE

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

#### PCR

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

# **REAR PANEL I/O PORTS**



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