DFI-ITOX®
○ Revision Control ○ Long Life Cycle

RoHS

NP951-B16C
Intel® 945GSE 3.5" Board with 12V DC-in

PROCESSOR
- Intel® Atom™ N270 processor
- 1.6GHz core frequency, 1.10V voltage
- 2.5W thermal design power
- 512KB on-die second level cache
- 533MHz FSB
- 22x22 mm, 1.0 mm ball pitch and 437 balls FCBGA

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

SYSTEM MEMORY
- One 200-pin SODIMM socket (1.8V)
- Supports DDR2 400/533MHz
- Supports up to 2GB system memory

EXPANSION SLOTS
- 1 mini PCI slot
- 1 CompactFlash socket

ONBOARD GRAPHICS FEATURES
- Intel® GMA 950
- 133/166MHz internal graphics core render frequency at 1.05V core voltage
- Supports 18-bit dual-channel LVDS
- VGA display resolution up to SXGA+ 1400x1050

ONBOARD AUDIO FEATURES
- Realtek ALC262 High Definition Audio
- Two 24-bit stereo DACs and three 20-bit stereo ADCs
- S/PDIF audio interface

ONBOARD LAN FEATURES
- One Realtek RTL8111C PCI Express Gigabit Ethernet controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE
- One Serial ATA interface supported which is compliant with SATA 1.0 specification (1.5Gbps interface)
- 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.)

REAR PANEL I/O PORTS
- 1 mini-DIN-6 port for PS/2 mouse and PS/2 keyboard ports
- 1 DC-in 12V jack or 4-pin ATX 12V power connector (optional)
- 1 DB-9 RS232 serial port
  - Pins 1 and 9 functions as RS232 signal or power (selectable via jumper)
- 1 DB-15 VGA port
- 1 RJ45 LAN port
- 2 USB 2.0/1.1 ports

I/O CONNECTORS
- 2 connectors for 4 external USB 2.0/1.1 ports
- 1 connector for an external RS232/422/485 serial port
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 8-bit Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 S/PDIF connector
- 1 Serial ATA connector
- 1 4-pin power connector for SATA drive
- 1 front panel connector
- 1 fan connector

BIOS
- Award BIOS
- 8Mbit SPI BIOS

ENERGY EFFICIENT DESIGN
- ACPI 2.0/1.0 specification
- Wake-On-Events include:
  - Wake-On-PS/2 Keyboard/Mouse
  - Wake up by mini PCI card
  - Wake-On-LAN
  - 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) voltages and failure alarm
- Monitors CPU 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
- 102mm (4.02") x 147mm (5.79")

REGULATORY
- UL, cUL, EMC: CE, FCC Class B

REAR PANEL I/O PORTS

USB 1

DC-in 12V USB 0 LAN VGA COM 1 PS/2