

## NP900-B16C COM Express Board

### PROCESSOR

- Intel® Atom™ N270 (Diamondville SC) 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® 82801GBM I/O Controller Hub (ICH7M)

### SYSTEM MEMORY

- One 200-pin SODIMM socket (1.8V)
- Maximum memory supports up to 2GB
- Supports 400MHz and 533MHz DDR2 SDRAM

### BIOS

- SPI interface BIOS (8Mbit)

### GRAPHICS FEATURES

- 133/166MHz internal graphics core render frequency at 1.05V core voltage
- One SDVO port (Port B)
  - SDVO slot reversal not supported
- Supports 18-bit dual-channel LVDS
- Supports CRT resolutions up to SXGA+

### DMI

- DMI lane width - x2 only
- DMI lane reversal not supported

### LAN FEATURES

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

### AUDIO FEATURES

- Supports Azalia AC97 interface

### EXPANSION INTERFACES

- PCI 2.3 interface (supports 4 PCI bus masters)
- Supports 8 USB ports (USB 1.1/2.0 host controllers)
- Supports 3 PCIe x1 interface

### SERIAL ATA INTERFACE

- SATA interface supports data transfer rate up to 1.5Gb/s (150MB/s) per port
- Two SATA ports with independent DMA operation supported 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

### TEMPERATURE

- Operating: 0°C to 60°C

### HUMIDITY

- Operating: 10% to 90%

### POWER

- Input: 12V, 5VSB, VCC\_RTC

### REGULATORY

- EMC: CE, FCC Part 15 Class B

### PCB

- Dimensions
  - COM Express basic form factor
  - 9.5cm (3.74") x 12.5cm (4.9")
  - 10 layers PCB
- Compliance
  - PICMG COM Express R1.0 basic form factor, Type 2

