

NP905-B16C Micro COM Express Board

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® 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

- Award 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

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 or AC97 interface (depends on the audio used by the carrier board)

EXPANSION INTERFACES

- PCI 2.3 interface (supports up to 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
 - Micro COM Express form factor
 - 9.5cm (3.74") x 9.5cm (3.74")
- Compliance
 - PICMG COM Express R1.0 basic form factor, Type 2

