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

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