**ML905-B Series**

**Micro COM Express Board**

**PROCESSOR**
- Intel® Low Power (IA-32 microarchitecture) processor
  - ML905-B11C
    - Intel® Z510P processor
    - 400MHz system front side bus
    - Speed supports 1.1GHz
  - ML905-B16C
    - Intel® Z530P processor
    - 533MHz system front side bus
    - Speed supports 1.6GHz

**CHIPSET**
- Intel® US15WP SCH single chip

**SYSTEM MEMORY**
- One 200-pin SODIMM socket
- Supports 400/533MHz DDR2 SDRAM
- Supports maximum of 2GB system memory

**EXPANSION INTERFACES (Type II)**
- PCI 2.3 interface (supports up to 4 PCI bus masters)
- Supports 8 USB ports (USB 1.1/2.0 host controllers)
- Supports 1 PCIe x1 interface
- Supports 8-bit GPIO

**ONBOARD GRAPHICS FEATURES**
- Intel® GMA500 integrated graphics engine
- Estimated 200MHz core render clock at 1.05V core voltage
- Ultra low power integrated 3D graphics
- High definition hardware video decode engine
- Supports LVDS and SDVO interfaces
  - LVDS: Supports pixel clock depths of 18 or 24 bits, max. pixel clock of 112MHz, equates to 1376x768 @ 85Hz
  - SDVO: Up to 160MHz pixel clock, equates to 1280x1024 @ 85Hz

**ONBOARD AUDIO FEATURES**
- Supports Azalia interface

**ONBOARD 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

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

**SERIAL ATA INTERFACE**
- JMicron JMB362 PCI Express to SATA host controller
  - x1 PCI Express to 2-port Serial ATA
  - Supports 1-lane 2.5Gbps PCI Express bus
  - Supports 2-port 3.0Gbps SATA II interface

**PCI INTERFACE**
- Fully compliant with PCI Express to PCI/PCI-X bridge specification, revision 1.0
- Full x1 PCI Express Throughput
- PCI Express advanced error reporting capability including ECRC support

**CONNECTORS**
- COM Express connectors
  - Two 220-pin COM Express standard connectors
  - Module connector pin: Tyco 3-1827231-6

**BIOS**
- Award BIOS
- 8Mbit flash memory

**ENERGY EFFICIENT DESIGN**
- Supports ACPI specification 2.0/1.0
- Enhanced Intel® SpeedStep Technology

**POWER**
- Input: 12V, 5VSB, VCC_RTC

**TEMPERATURE**
- 0°C to 60°C

**HUMIDITY**
- 10% to 90%

**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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