**FEATURES**

- Industrial mainboard in ATX form factor supports Intel® Pentium® 4 processor with Hyper-Threading technology, Core™ 2 Duo, Pentium® D and Celeron® D processor in LGA-775 package up to 1066MHz front side bus.
- Support DDR2 667/533 SDRAM up to 4GB in dual channel architecture.
- Intel® new GMCH integrated graphics engine increases 9% ~ 25% performance of GMA 900 of Intel 915GV.
- One PCI Express x16 slot features high-end graphics card connection interface or dual independent displays with ADD2+ media card that provides TV tuner, video capture in and DVI, TV-out.
- Six 32-bit PCI expansion slots for most industrial I/O cards.
- Dual Gigabit Ethernet ports based on PCI Express x1 interface without sharing bandwidth of PCI expansion bus.
- Four ports for SATA RAID controller providing benefits of Intel Matrix Storage Technology RAID 0, 1, 5, 10.

**GENERAL**

- **Processor**
  - CPU & Package: Intel® Core™ 2 Duo, Pentium® D, Pentium® 4, Celeron® D processor in LGA-775 package
  - FSB: 1066/800/533MHz

- **Chipset/Core Logic**
  - Intel® 945G & ICH7R

- **System Memory**
  - Up to 4GB DDR2 667/533 SDRAM on four 240-pin DIMM sockets

- **BIOS**
  - Award BIOS

- **Storage Devices**
  - EIDE: Support two EIDE devices with Ultra DMA 100/66/33
  - SATA: Support four SATA 300 drives
  - Solid State Disk: N/A

- **Watchdog Timer**
  - Programmable via software from 1 sec. to 255 min.

- **Expansion Interface**
  - Six 32-bit PCI expansion slots
  - One PCI Express x16 slot for graphics card, ADD2+/ card or PCI Express x1 (general purpose) card
  - Up to four PCI Express x1 external interface per (project spec.)

- **Hardware Monitoring**
  - System monitor (fan, temperature, voltage)

- **Power Requirement**
  - Typical: +5V@2.69A; +12V@5.37A

- **Dimension**
  - Dimension: 312.8(L) x 243.8(W) mm; 12.3"(L) x 9.6" (W)

- **Environment**
  - Operating Temperature: 0 to 55°C
  - Storage Temperature: -20 to 80°C
  - Relative Humidity: 5% to 90%, non-condensing

- **MTBF**
  - 105,889 hrs

**I/O**

- **MIO**
  - Two serial (RS232 x1, selectable RS232/422/485 x1) ports, one at rear I/O panel, one parallel, one FDD channel

- **IrDA**
  - IrDA 1.0

- **Ethernet**
  - Dual 10BASE-T/100BASE-TX/1000BASE-T Ethernet (Intel® 82573L x2)
  - PCI Express x1 interface based Gigabit Ethernet
  - Dual RJ-45 connectors with two LED indicators at rear I/O panel

- **Audio**
  - AC'97 2.2 Audio

- **USB**
  - Eight USB 2.0 ports (Four ports at rear I/O panel, four ports internal)

- **Keyboard & Mouse**
  - Dual 6-pin mini-DIN connectors at rear I/O panel for PS/2 keyboard/mouse

**DISPLAY**

- **Graphic Controller**
  - GMCH integrated Intel® Graphics Media Accelerator 950 (Intel® GMA 950)

- **Graphic Memory**
  - Dynamic system memory sharing up to 224MB (Intel® DVMT 3.0) or static system memory sharing up to 128MB

- **Display Interface**
  - Display resolution up to 2048 x 1536