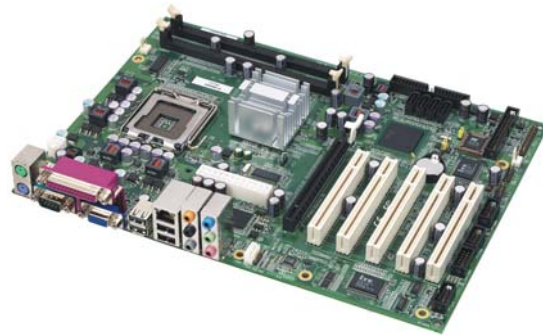


# IPM-945

## Socket LGA775-pin ATX Board for Pentium® 4 / Celeron® D Processor with VGA / Gigabit LAN / Audio / S-ATA

**Key-point:**

- > Socket LGA775-pin for Intel® Pentium® 4 / Celeron® D processor, up to 3.8GHz
- > Intel® 945G + ICH7 chipsets, 533 / 800 / 1066 MHz FSB
- > Chipset integrated VGA function
- > Memory support 400 / 533 / 667 MHz DDR2, up to 2GB
- > Support 10 / 100 / 1000 Base-TX Ethernet
- > AC97 Audio Codec, 8 x USB2.0 ports, 4 x COM ports, 4 S-ATA II ports
- > 1 x PCI Express x 16, 5 x PCI Slots
- > WatchDog timer & Hardware monitoring function



**Processor:**

- \* Support LGA775 socket for Intel® Pentium® 4 / Celeron® D processor Up to 3.8GHz (Prescott core), with HT technology
- \* Support LGA775 socket for Intel® Pentium® D processor Up to 3.4GHz

**Core Logic:**

- \* Intel® 945G + ICH7 chipsets

**BIOS:**

- \* Award BIOS

**Front Side Bus Speed:**

- \* 533 / 800 / 1066 MHz

**Memory:**

- Dual channel memory architecture:
- \* Two 240-pins DDR2 DIMM
  - \* Support 2GB DDR2 533 / 667 SDRAM (max.)

**Onboard VGA Controller:**

- \* Intel® 945G integrated Intel® Graphic Media Accelerator 950 VGA

**Gigabit LAN Controller:**

- \* Intel® 82573L Gigabit LAN, for 10 / 100 / 1000 Base-TX Ethernet
- \* Add one set LAN Active, Link LED pin-header for extend to front panel

**Onboard IDE:**

- \* One enhanced EIDE for PIO mode, DMA mode
- \* Support two ATA-100 / 66 / 33 IDE devices

**Multi I/O:**

- Onboard ITE® IT8712F chips, Support:
- \* 1 x Floppy port by pin-header
  - \* 1 x SPP / EPP / ECP parallel port
  - \* COM1 for RS-232 on rear panel
  - \* COM2 / 3 / 4 for RS-232 by pin-header
  - \* Onboard 8-bit Digital I/O Interface

\*Specification is subject to change without prior notice

**Ordering Information:**

Model No.	Position	Support LCD	Support VGA	Support LAN	Support Audio	Support S-ATA
IPM-945	Standard Product	---	Yes	Yes	Yes	Yes

**Keyboard / Mouse Connector:**

- \* Staked connector for PS/2 type keyboard & mouse
- \* 1 x 6-pins connector for external keyboard / mouse

**Audio:**

- \* AC97 Audio codec, onboard Realtek ALC880 7.1 channel
- \* Onboard Audio Line\_in, Line\_out, MIC phone jack

**Onboard Serial ATA:**

- \* Four S-ATA II channels (300MB/s), support up to 4 S-ATA devices

**USB:**

- \* Support 8 x USB2.0 ports, four USB ports on rear panel
- \* 4 x USB ports by pin-header, USB cable with bracket by optional

**WatchDog Timer:**

- \* 256 Levels software programmable

**Hardware Monitoring:**

- \* ITE® IT8712F chip, monitoring for CPU and system temperature, voltage and fan speed

**Extension slot:**

- \* 1 x PCI Express by 16 slot
- \* 5 x PCI slots

**Environments:**

- \* Operation temperature: 0°C to 60°C (32° F to 140° F)
- \* Storage temperature: -20°C to 80°C (-68° F to 176° F)
- \* Relative humidity: 10% to 90% (Non-Condensing)

**Certification:**

- \* CE, FCC pre-scan approval

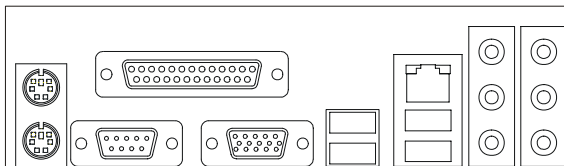
**Form Factor:**

- \* ATX form factor 12" x 7.87" (305mm x 200mm)

# IPM-945

**Socket LGA775-pin ATX Board for Pentium® 4 / Celeron® D Processor with VGA / Gigabit LAN / Audio / S-ATA**

ATX Rear Window Panel:



Block Diagram:

