EP-5P945-J

■ **Introduction**

Intel i945P + ICH7 chipset, ATX size
FSB1066 / DDR2 667 / 8ch audio / 8 USB2.0 / PCI-E VGA / PCI-E x1 / GbE LAN / 4 SATA II

■ **Specification**

CPU Socket:
Socket LGA775 for Intel Celeron D 3xx, Pentium 4 5xx/6xx and single core P4EE up to 3.8+GHz
Support Intel Pentium D with Dual core processor
Support 533/800/1066 MHz front-side bus
Support Intel EM64T 64-bit Computing platform
Support Intel 05B or 05A Platform Compatibility Guide

Chipset:
Intel i945P + ICH7 (Lakeport-P)

System Memory:
Four 240-pin DDR2 SDRAM DIMM sockets
Support 1.8v DDR2-400/533/667 DIMMs with dual channel architecture
Support single-sided or double-sided, non-ECC, DIMMs with 256Mb/512Mb/1Gb devices
Support up to 4GB system memory

Expansion Slots:
Three PCI connectors compliant with PCI v2.3
Two PCI-Express (x1) connectors compliant with PCI Express 1.0a
One PCI Express (x16) connector compliant with PCI Express 1.0a
One PCI Express connector for extra PCI-E VGA in GLI (Graphics Link Interface) mode.
(Jumper selectable)

IDE:
One IDE interface (up to 2 IDE devices) with UDMA-33, ATA-66/100 support from
embedded IDE controller

USB:
Eight USB connectors compliant with USB2.0 from embedded USB controller (4
connectors at rear panel)

S-ATA II :
Four S-ATA II ports with up to 300MB/s bandwidth from ICH7

LAN:
One Gb Ethernet from **Realtek RTL8110-S32** PCI controller

Audio:
Selectable 2, 6 or 8-CH audio from ALC880 HDA compliant CODEC with 20-bit ADC and
24-bit DAC
Support CD-In, and S/PDIF-out
Optical & Coaxial S/PDIF-out available on rear panel
Support Jack detection for fool-proof audio device installation

I/O:
Onboard Finetek F71872F LPC bus I/O controller
Legacy peripheral interface for PS/2 keyboard & mouse, FDD, Parallel, Two Serial and
IrDA (v1.0 compliant), ¡K
Support Hardware Monitoring for fan speed monitoring, CPU/System temperature and
ThermoStick temperature.
Intelligent fan speed control for CPU-fan (PWM) and Chassis-fan (DC) for quiet operation

BIOS:
4Mb Flash EEPROM with Award Plug&Play BIOS
Support ACPI S3 (Suspend To RAM) mode in ACPI compliant O/S
Support EZ Boot for fast bootable device selection
Support Magic Health for system hardware status report during system boot-up

Special Features:
Support KBPO (Keyboard Power ON) function
Support Wake-On-LAN by PME
Support USB resume in S3
Onboard Post-Port LED display
Support Asynchronous clocking mode between FSB and PCI/PCI-E

PowerBIOS for excellent overclocking features:
Programmable FSB and PCI Clock output frequency with 1MHz fine tuning
Support BIOS adjustable CPU multiplier, FSB clock, PCI-E x16 clock, DIMM frequency
Support BIOS adjustable CPU Core voltage, Chipset voltage, DIMM voltage settings

Powerful utilities for Windows:

EPTP (EPoX Thunder Probe) for system hardware monitoring
Magic Flash for BIOS update without requiring DOS flash utility and bootable diskette
Magic Screen for personal bootup screen design

Form Factor:
305mm x 245mm x 40mm, ATX Size

OS Supported:
Windows 2K/XP(32/64bit)/Server2003(32/64bit)

■ **Memory Approval List**

EP-5P945-J_0.0_Dual Channel DDRII-4dimm-092105