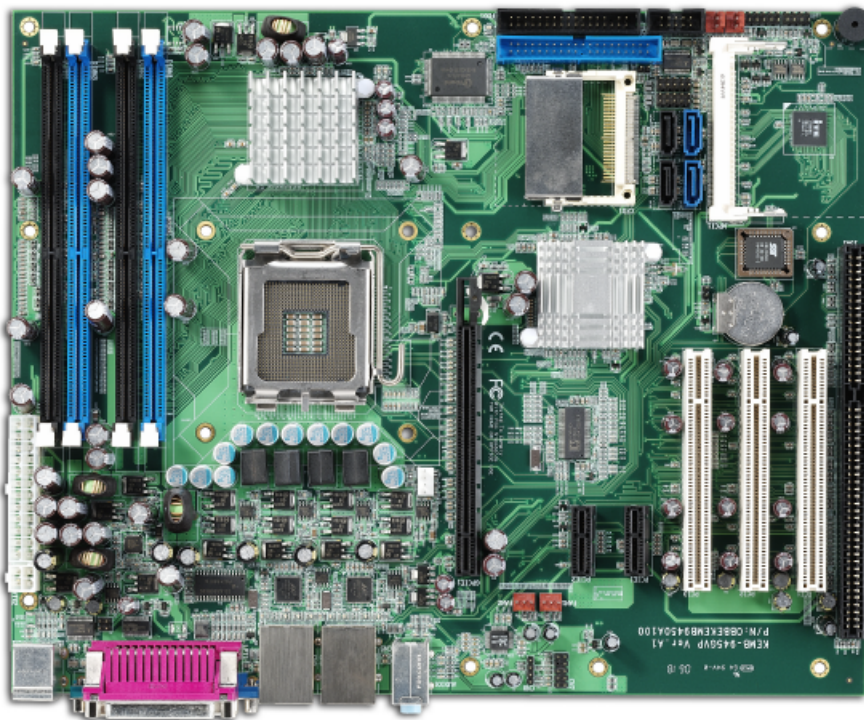


Industrial Motherboard in ATX form factor with Intel® 945G chipset



- Supports Intel® Core™2 Duo, Pentium® D CPU on LGA775 socket
- 1066/800/533MHz Front Side Bus
- Intel® Graphics Media Accelerator 950
- Dual Channel DDR2 DIMM, maximum 4GB
- Integrated PCI Express LAN, USB 2.0 and SATA 3Gb/s

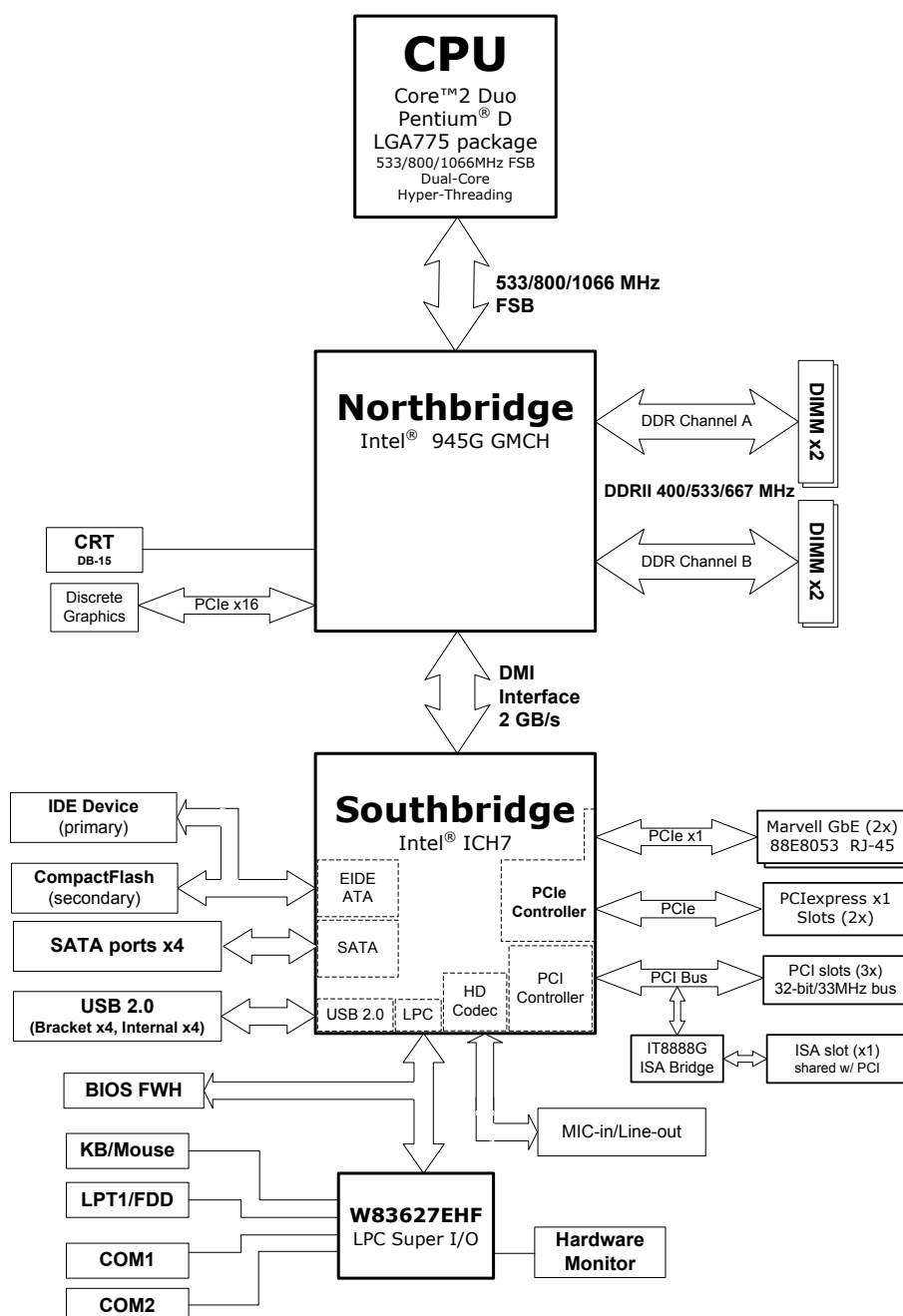


Product Overview

The ATX-945G is an ATX form factor single-processor industrial motherboard that is based on the Intel® 945G chipset with ICH7 I/O Controller Hub. It supports the Intel® Core™2 Duo, Pentium® D, Pentium® 4 with Hyper-Threading Technology, or Celeron® D Processor on the LGA775 socket, 1066/800/533MHz Front Side Bus, Dual Channel DDR2 DIMM 667/533/400MHz, up to 4 DIMMs and a maximum of 4GB. The Intel® Graphic Media Accelerator 950 technology with 2048x1536x8bit at 75Hz resolution, PCI Express LAN, USB 2.0

(x8) and SATA round out the package for a powerful industrial PC. I/O features of the ATX-945G include a 32-bit/33MHz PCI Bus, 16-bit/8MHz ISA bus, 1x PCI Express x16 slot, 2x PCI Express x1 slots, 3x PCI slots, 1x ISA slot (shared w/ PCI), onboard Gigabit Ethernet, LPC, EIDE Ultra ATA/100, 4 channels SATA 3Gb/s, Mini PCI card slot, UART compatible serial ports, parallel port, floppy drive port, HD Audio, and PS/2 Keyboard and Mouse ports.

Block Diagram



Technical Information

Specifications	ATX form factor single-processor industrial motherboard
Processors	Single Processor with Intel® Land Grid Array 775 (LGA775) package Intel® Core™2 Duo, Pentium® D, Pentium® 4 with Hyper-Threading Technology, or Celeron® D Processor 1066/800/533MHz Front Side Bus
Chipsets	Intel® 945G Graphic Memory Controller Hub (GMCH) Intel® I/O Controller Hub 7 (ICH7)
BIOS	Support for 4 Mb Firmware Hub BIOS write protection provides anti-virus capability DMI BIOS Support Supports system soft power-off (via ATX power supply) Supports PXE Remote Boot Supports boot from USB Device
System Memory	Dual Channel DDR2 DIMM 667/533/400MHz, up to 4 DIMMs Maximum 4GB System Memory
Graphics	GMCH analog RGB output on the faceplate. Resolution up to 2048 x 1536 at 75Hz. PCI Express x16 extension slot
PCI/PCIe/ISA Support	32-bit/33MHz PCI Bus, 16-bit/8 MHz ISA bus 1x PCIe x16 slot, 2x PCIe x1 slots, 3x PCI slots, 1x ISA slot (shared w/ PCI)
Clock Generator	Integrated Circuit Systems ICS954101 (CK410)

I/O Controller	LPC Super IO controller W83627EHF
On-board LAN	Onboard Marvell 88E8053 supports 2 GbE ports on bracket Support IEEE 802.3x compliant flow control Support IEEE 802.3ab Auto-Negotiation of speed, duplex and flow control
Peripheral Support	One IDE channel supports two Ultra ATA 100/66/33 devices 4 Channels SATA 3Gb/s CompactFlash Type II socket Mini PCI socket Compliant with USB Specification Rev. 2.0, supports 8 USB 2.0 ports (Four onboard Type-A connectors, four external) Two 16550 UART compatible serial ports with ESD protection, one UART supports RS232/422/485 interface (jumperless, by BIOS selection) One internal bi-direction parallel port with SPP/ECP/EPP mode One internal Floppy port PS/2 Keyboard and Mouse ports HD Audio, Line-out, MIC-in
Watchdog Timer	1-255 step (sec/min), can be set with software on Super I/O
Hardware Monitor	Temperature, fans, and voltage monitoring Fan speed control and monitoring
Operating Temp.	0°C - 60°C
Certifications	CE, FCC Class A

Product Information

Article	Part No.	Description
ATX-945G	BMMB945P-002000T	Industrial Motherboard in ATX form factor with Intel® 945G chipset
CPU Cooler	0H05CPU92926500L	Standard CPU cooler for LGA775 socket (92x92x65.6mm)
CPU Cooler (slim)	0H05CPU93932900L	Slim CPU cooler for LGA775 socket (93x93x29.5mm)
Cooler Retention Plate	0H05HSEBWN77500L	Retention Plate for CPU cooler

