

Intel® Workstation Board S975XBX2

Parts List and Configuration Guide

A reference guide to assist customers in ordering the necessary components required to configure the Intel® Workstation Board S975XBX2



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Enterprise Platforms and Services Marketing

Note: Subject to Change

Revision History

12/20/2006 Initial production revision

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Note: In addition to this document, there is a web based tool to assist customers in selecting components for Intel Server and Workstation Products available here: <http://www.intel.com/go/serverconfigurator>

Production Board & System Details

This section contains information needed to order and configure the production Intel® Workstation Board S975XBX2

1) The Intel® Workstation Board S975XBX2 contains the following:

- One S975XBX2 motherboard
- Four 20" SATA Data Cables
- Two 1x4 Pin PSU to Two SATA Power Converter Cable
- One Floppy Data Cable
- One IDE Data Cable
- 2x2 Pin to 2x4 Pin Processor Power Converter Cable
- One ATX I/O Shield
- System and RAID drivers
- Quick Start Guide
- Attention Document
- Quick Configuration Label

Production Board – Order Codes

Product Code	MM #	UPC	Qty Per	Description
S975XBX2	885414	00735858186506	5	<p>Intel® Workstation Board S975XBX2 Dual-Core Intel® Core™ Extreme through Celeron® D processor support, Intel® 975X Chipset, Four ECC DDR2 533/667/800MHz DIMMs (max 8G), Triple slot graphics (x16/x0/4 or x8/x8/x4), ATI* (Crossfire) dual gfx technology support, Four SATA ports (3.0 Gb/s) from ICH7R, Discrete SATA RAID Controller with four additional SATA Ports (3.0 Gb/s), One IEEE-1394a back port and one internal header for two IEEE-1394a ports; USB 2.0 ports, Intel® Matrix Storage Technology (RAID 0, 1, 10, 5), Intel® GbE LAN with iAMT® solution.</p> <p>Note: The S975XBX2 is designed to work with a standard ATX chassis.</p>

Not included: Processors, Processor heatsinks, DDR2 main memory, hard drives, and other customer configuration items are not included in above descriptions.

Appendix 1 – Supported Boxed Processors

The following boxed processors are designed and validated for use with the Intel Workstation Board S975XBX2

Dual-Core Intel® Xeon® Processor 3000 Sequence:

Part Number	CPU Speed	CPU Number	Bus Speed	Mfg-Tech	Cache Size	Package Type	Notes
BX805573070	2.66 GHz	3070	1066 MHz	65 nm	4MB	775 pin PLGA	1,2
BX805573060	2.40 GHz	3060	1066 MHz	65 nm	4MB	775 pin PLGA	1,2
BX805573050	2.13 GHz	3050	1066 MHz	65 nm	2MB	775 pin PLGA	1,2
BX805573040	1.86 GHz	3040	1066 MHz	65 nm	2MB	775 pin PLGA	1,2

Intel® Core™ 2 Duo desktop processors:

Part Number	CPU Speed	CPU Number	Bus Speed	Mfg-Tech	Cache Size	Package Type	Notes
BX80557E6700	2.66 GHz	E6700	1066 MHz	65 nm	4MB	775 pin PLGA	1,2
BX80557E6600	2.40 GHz	E6600	1066 MHz	65 nm	4MB	775 pin PLGA	1,2
BX80557E6600	2.13 GHz	E6400	1066 MHz	65 nm	2MB	775 pin PLGA	1,2
BX80557E6300	1.86 GHz	E6300	1066 MHz	65 nm	2MB	775 pin PLGA	1,2

Intel® Core™ 2 Extreme processors:

Part Number	CPU Speed	CPU Number	Bus Speed	Mfg-Tech	Cache Size	Package Type	Notes
BX80557X6800	2.93 GHz	X6800	1066 MHz	65 nm	4MB	775 pin PLGA	1,2

Intel® Pentium® D processors:

Part Number(CPU Speed	CPU Number	Bus Speed	Mfg-Tech	Cache Size	Package Type	Notes
BX80553960	3.60 GHz	960	800 MHz	65 nm	2MBx2	775 pin PLGA	1,2
BX80553945	3.40 GHz	945	800 MHz	65 nm	2MBx2	775 pin PLGA	
BX80553950 BX80553950T	3.40 GHz	950	800 MHz	65 nm	2MBx2	775 pin PLGA	1,2
BX80553940	3.20 GHz	940	800 MHz	65 nm	2MBx2	775 pin PLGA	1,2
BX80551PG3200FN	3.20 GHz	840	800 MHz	90 nm	1MBx2	775 pin PLGA	1
BX80553925	3.00 GHz	925	800 MHz	65 nm	2MBx2	775 pin PLGA	
BX80553930	3.00 GHz	930	800 MHz	65 nm	2MBx2	775 pin PLGA	1,2
BX80551PG3000FN	3.00 GHz	830	800 MHz	90 nm	1MBx2	775 pin PLGA	1,2
BX80553915	2.80 GHz	915	800 MHz	90 nm	2MBx2	775 pin PLGA	
BX80553920	2.80 GHz	920	800 MHz	65 nm	2MBx2	775 pin PLGA	1,2
BX80551PG2800FN	2.80 GHz	820	800 MHz	90 nm	1MBx2	775 pin PLGA	1,2
BX80551PE2666FN	2.66 GHz	805	533 MHz	90 nm	1MBx2	775 pin PLGA	1,2

Intel® Celeron® D processors:

Part Number	CPU Speed	CPU Number	Bus Speed	Mfg-Tech	Cache Size	Package Type	Notes
BX80547RE3200CN	3.20 GHz	351	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80546RE3066C	3.06 GHz	345	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE3066C	3.06 GHz	345J	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE3066CN	3.06 GHz	346	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80546RE2933C	2.93 GHz	340	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2933C	2.93 GHz	340J	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2933CN	2.93 GHz	341	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2800C	2.80 GHz	335J	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80546RE2800C	2.80 GHz	335	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2800CN	2.80 GHz	336	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2667CN	2.66 GHz	331	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80546RE2667C	2.66 GHz	330	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2667C	2.66 GHz	330J	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80546RE2533C	2.53 GHz	325	533 MHz	90 nm	256 KB	775 pin PLGA	
BX80547RE2533C	2.53 GHz	325J	533 MHz	90 nm	256 KB	775 pin PLGA	

Note: Supported processors subject to change, please see <http://support.intel.com> for the latest list

Notes:

1. These parts support Intel® Extended Memory 64 Technology (Intel® EM64T). These parts do not include Hyper-Threading Technology. These parts support Execute Disable Bit Feature (NX). These parts support Enhanced Intel® Speedstep Technology. This is a dual-core processor.
 2. RoHS Compliant. Processor has a lead-free 2nd level interconnect and thermal solution is lead-free.
- Intel® Active Management Technology (Intel®AMT)
 - Intel® Active Management Technology requires the platform to have an Intel® AMT-enabled chipset, network hardware and software. The platform must also be connected to a power source and an active LAN port.
 - Intel® Virtualization Technology (Intel® VT)
 - Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled BIOS and VMM applications are currently in development.
 - Hyper-Threading Technology (HT Technology)
 - Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® Processor supporting HT Technology and an HT Technology enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use