Intel Corporation
2200 Mission College Blvd.
P.O. Box 58119
Santa Clara, CA 95052-8119

FACT SHEET

INTEL'S FIRST DUAL-CORE PROCESSOR-BASED PLATFORM

Powering PCs for Computing and Entertainment Enthusiasts

Intel's first dual-core processor-based platform includes the Intel® Pentium® Processor Extreme Edition 840 running at 3.2 GHz and the Intel® 955X Express Chipset. The platform powers PCs for computing and entertainment enthusiasts who crave computing power for audio, video, digital design and gaming tasks. It also provides the headroom for future exciting multi-threaded games and applications.

Product	Technical Details

Intel® Pentium® Processor Extreme Edition 840	• Frequency: 3.2 GHz
	• Front-side bus: 800 MHz
	• Cache: 2MB L2 cache (1MB each core)
	• Performance-enhancing features:
	  o Intel® Extended Memory 64 Technology
	  o Hyper-Threading Technology
	• Security-enhancing features: Execute Disable Bit
	• Die Size: Approximately 206mm^2
	• Transistors: Approximately 230 million
	• Manufacturing process technology: 90nm process technology

Intel® 955X Express Chipset	• Front-side bus: 800 and 1066 MHz
	• Memory:
	  o Dual channel DDR2-667/533 with error-correcting code (ECC) support
	  o Up to 8 GB system memory
	  o Intel® Memory Pipeline Technology, which provides increased system performance
	• Input-output technologies:
	  o PCI-Express* x16 graphics
	  o Support for six PCI-Express* x1 expansion lanes
	  o Eight Hi-Speed USB 2.0 ports
	• Audio support:
	  o Intel® High-Definition Audio for full 7.1 surround sound

-- more --

	• Serial ATA
	  o Four Serial ATA ports; 3Gb/s transfer rate for each port
	• Intel® Matrix Storage Technology
	  o RAID 0, 1, 5, 10, and Intel® Matrix RAID Technology, which can boost the system's application and storage performance while helping to protect valuable content
	  o Advanced Host Controller Interface (AHCI) support

Intel® Desktop Board D955XBK	• Intel 955X Express Chipset
	• ATX form factor
	• Lead-free motherboard
	• LGA775 socket supports high performance Intel desktop processors
	
	Additional technical details:
	• Input-output technologies:
	  o IEEE-1394 a/b ports
	  o One PCI-Express* x16
	  o One PCI-Express* x4 (routed to physical PCI-Express x16 connector)
	  o One PCI-Express* x1
	  o Three PCI connectors
	• Audio support:
	  o Intel® High Definition Audio, with 24-bit 7.1-capable optical audio port for Sony/Philips* Digital Interface (S/PDIF) with Alesis* Digital Audio Tape (ADAT) 8-channel digital and 5.1 Dolby* Digital Live
	  o Intel® Audio Studio with Sonic Focus* 7.1 MARS processing
	• Intel® PRO 10/100/1000 Network Connection
	• Serial ATA
	  o Four Serial ATA ports; 3Gb/s transfer rate for each port
	  o Discrete Serial ATA RAID controller providing four additional ports; 1.5Gb/s transfer rate for each port

About Intel:
Intel, the world's largest chip maker, is also a leading manufacturer of computer, networking and communications products. Find out more about Intel online at www.intel.com/pressroom.

-- 30 --

Hyper-Threading Technology requires a computer system with an Intel® Pentium® 4 processor with HT technology, a chipset and BIOS that utilize this technology, and an operating system that includes optimizations for this technology. Performance will vary depending on the specific hardware and software you use. See Hyper-Threading Technology for information.