



# Energize your digital home experience and enable new levels of business collaboration with the help of Intel® desktop boards.

## Intel® desktop boards based on the Intel® 915P Express Chipset



### A scalable, flexible solution for the home or office

The Intel® Desktop Boards D915PBL, D915PCY, D915PCM, D915PGN, and D915PSY provide the high-bandwidth interfaces essential to run digital home

applications such as audio, video, photography, and gaming. Based on the Intel® 915P Express Chipset, these boards support the latest Intel® Pentium® 4 Processor with HT Technology<sup>1</sup> and feature support for dual-channel DDR2 533 or DDR 400 memory, 800-MHz system bus, PCI Express\* graphics and I/O architecture, Intel® High Definition Audio (flexible 6-channel support), and Hi-Speed USB 2.0 connectivity. With Intel® Desktop Board D915PBL, gamers and power users can get premium features such as 1394a, Intel® High Definition Audio with support for 7.1 surround sound, and Intel® Matrix Storage Technology. Business users will find that Intel desktop boards based on the Intel 915P Express Chipset provide the stability and performance essential to meet the demanding needs of today's office applications.

### The ideal approach to a customized solution

The Intel 915P Express Chipset-based Intel desktop board family offers system design flexibility, with support for both dual-channel DDR and DDR2 memory and discrete PCI Express\* x16 graphics. These desktop boards are also configured with or without Intel® PRO 10/100 LAN, and in microATX or ATX form factors.

# Intel® Desktop Board D915PBL

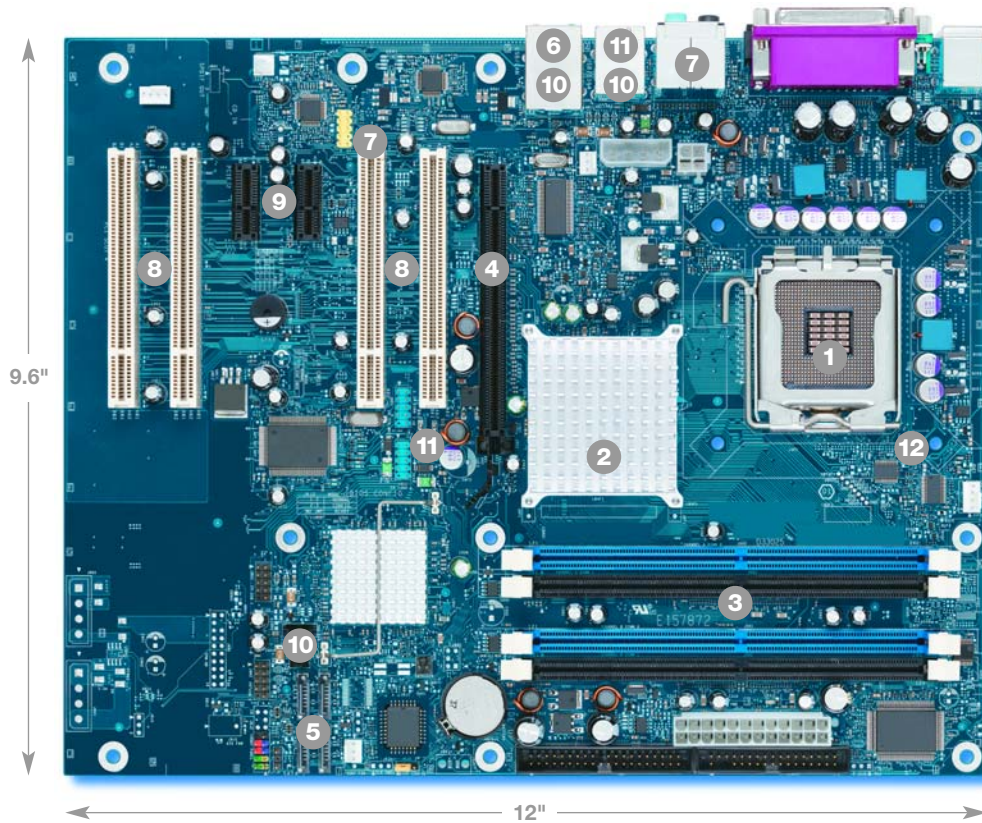
Energize your computing experience  
with the Intel® Desktop Board D915PBL



The Intel® Desktop Board D915PBL provides the power and flexibility to address your gaming, digital content creation, and audio enjoyment needs with premium features such as: support for the Intel® Pentium® 4 processor Extreme Edition, PCI Express\* x16 graphics, DDR2 533 memory, RAID, 1394a, and Intel® Audio Studio\*\*.

## Boxed Intel® Desktop Board D915PBL solution includes:

- Desktop Board D915PBL
- ATX 2.01 compliant I/O shield
- Floppy and ATA 100/66 cables
- Four SATA cables
- Two SATA power cables
- Back-panel card: USB 2.0/1394a
- Front-panel card: USB 2.0/1394a/audio
- Board and back-panel I/O layout stickers
- Quick Reference Guide
- Integration Guide (poster)
- RAID driver (floppy)
- Desktop board three-year limited warranty
- Intel® Express Installer CD, including:
  - Intel® Audio Studio\*\* with Sonic Focus\* audio enhancements
  - Intel® Desktop Utilities\*\*\*
  - GameSpy\*
  - Musicmatch\* Jukebox
  - Norton Internet Security\*
  - NTI CD-Maker\*
  - InterVideo\* Home Theater Silver
  - InterVideo\* WinDVD Creator Silver
  - Farstone\* RestoreIT! Lite
  - Intel® Desktop Control Center†
  - LANDesk\* System Manager†
  - Software Drivers
  - Desktop Board Product Guide



## Features and Benefits

### Intel® Desktop Board D915PBL

- 1 Support for the Intel® Pentium® 4 processor Extreme Edition featuring Hyper-Threading Technology<sup>2</sup>:** Supports today's highest Intel® processor frequencies with 800-MHz system bus via the LGA775 socket. Supports boxed Intel processors with packaging designated by 04B or 04A.
- 2 Intel® 915P Express Chipset:** High-bandwidth interfaces and discrete graphics supporting Intel Pentium 4 processors featuring Hyper-Threading Technology.
- 3 Dual-channel DDR2 533/400 memory support:** Four DIMM sockets designed to support up to 4 GB<sup>3</sup> of DDR2 533/400 memory.
- 4 PCI Express\* x16 graphics connector:** Increased graphics bandwidth delivers up to 8 GB/s (up to four times faster than previous AGP solutions).
- 5 Four Serial ATA150 ports (1.5 Gb/s) featuring Intel® Matrix Storage Technology:** SATA storage devices can be configured to enable faster disk I/O (RAID 0) or to provide the safety of redundant hard drive images (RAID 1).
- 6 Integrated Intel® PRO 10/100 LAN:** On-board 10/100-Mbps Ethernet LAN connectivity.
- 7 Intel® High Definition Audio:** 7.1 surround sound audio with jack sensing. High-quality integrated audio that rivals the performance of high-end discrete solutions.
- 8 Four PCI connectors:** Expansion slots for custom system configurations and future add-in card upgrades.
- 9 Two PCI Express\* x1 connectors:** With a 500 MB/s concurrent data transfer rate, easily doubles the I/O bandwidth of traditional PCI architecture.
- 10 Eight Hi-Speed USB 2.0 ports:** Four back-panel ports and an additional four USB ports via two internal headers.
- 11 1394a connectors:** One back-panel port and internal headers for an additional two ports enable data transfer from consumer electronic devices such as digital camcorders and MP3 players.
- 12 Intel® Precision Cooling Technology:** Advanced management ASIC supports temperature-based fan control. Intel Precision Cooling Technology automatically adjusts the processor fan speed based on the processor temperature and adjusts the chassis fan speeds depending on the system temperature. System fan noise may be reduced by operating controlled chassis and processor fans at the minimum necessary speeds.
- 13 Instantly-Available PC (suspend-to-RAM):** Enables advanced power savings (not pictured).

# Intel® Desktop Boards D915PCY, D915PCM, D915PGN, and D915PSY

Customize your system to take advantage of the latest digital technologies in the home and office with Intel® desktop boards based on the Intel® 915P Express Chipset

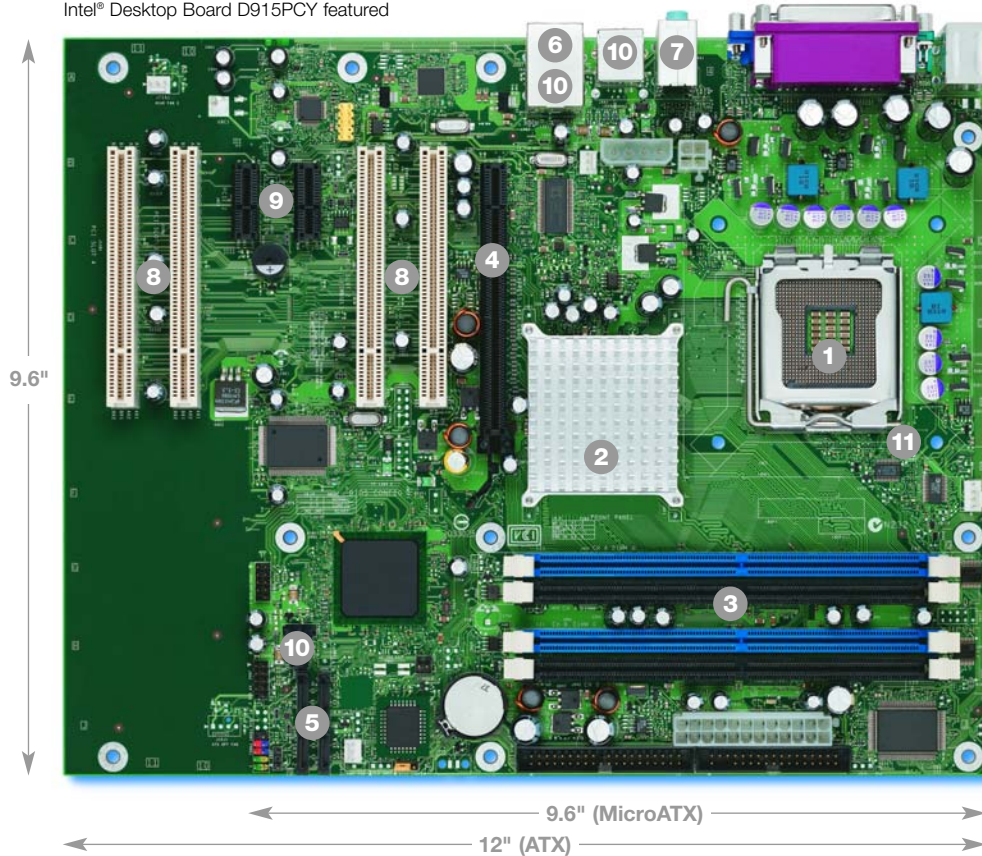


The Intel® Desktop Boards D915PCY, D915PCM, D915PGN, and D915PSY are designed to showcase the latest discrete graphics chipset for the Intel® Pentium® 4 processor supporting Hyper-Threading Technology<sup>1</sup>. With PCI Express\* x16 graphics, Intel® High Definition Audio, and DDR2 533 or DDR 400 memory, these desktop boards offer a flexible and scalable solution for a broad range of demanding computing needs in the home or office.

## Boxed Intel® Desktop Boards D915PCY, D915PCM, D915PGN, and D915PSY solution includes:

- Desktop Board D915PCY, D915PCM, D915PGN, or D915PSY
- ATX 2.01 compliant I/O shield
- Floppy, SATA, and ATA 100/66 cables
- Board and back-panel I/O layout stickers
- Quick Reference Guide
- Desktop board three-year limited warranty
- Intel® Express Installer CD, including:
  - Intel® Desktop Utilities\*\*\*
  - Norton Internet Security\*
  - NTI CD-Maker\*
  - Musicmatch\* Jukebox
  - Sonic Focus\*
  - InterVideo\* Home Theater Silver
  - InterVideo\* WinDVD Creator Silver
  - Farstone\* RestoreIT! Lite
  - LANDesk\* System Manager†
  - Software Drivers
  - Desktop Board Product Guide

Intel® Desktop Board D915PCY featured



## Features and Benefits

### Intel® Desktop Boards D915PCY, D915PCM, D915PGN, and D915PSY

- 1 Support for the Intel® Pentium® 4 processor featuring Hyper-Threading Technology<sup>2</sup>:** Supports today's highest Intel® processor frequencies with 800- or 533-MHz system bus via the LGA775 socket. Supports boxed Intel processors with packaging designated by 04B or 04A.
- 2 Intel® 915P Express Chipset:** High-bandwidth interfaces and discrete graphics supporting Intel Pentium 4 processors featuring Hyper-Threading Technology.
- 3 Dual-channel DDR2 533/400 or DDR 400/333 SDRAM support:** Four DIMM sockets designed to support up to 4 GB of DDR2 533/400 (D915PCY, D915PCM) or DDR 400/333 (D915PGN, D915PSY) memory.
- 4 PCI Express® x16 graphics connector:** Increased graphics bandwidth delivers up to 8 GB/s (up to four times faster than previous AGP solutions).
- 5 Four Serial ATA150 ports:** Facilitates high-speed storage transfers at up to 1.5 Gb/s per port, allows easier hard drive upgrades, and expansion for new SATA optical drives.
- 6 Integrated Intel® PRO 10/100 LAN (optional):** On-board 10/100-Mbps Ethernet LAN connectivity.
- 7 Intel® High Definition Audio:** Flexible 6-channel audio with jack sensing. High-quality integrated audio that rivals the performance of high-end discrete solutions.
- 8 Four PCI connectors (Desktop Boards D915PCY, D915PGN) or two PCI connectors (Desktop Boards D915PCM, D915PSY):** Expansion slots for custom system configurations and future add-in card upgrades.
- 9 Two PCI Express® x1 connectors (Desktop Boards D915PCY, D915PGN) or one PCI Express® connector (Desktop Boards D915PCM, D915PSY):** With a 500 MB/s concurrent data transfer rate, easily doubles the I/O bandwidth of traditional PCI architecture.
- 10 Eight Hi-Speed USB 2.0 ports:** Four back-panel ports and an additional four front-panel USB ports via two internal headers.
- 11 Intel® Precision Cooling Technology:** Advanced management ASIC supports temperature-based fan control. Intel Precision Cooling Technology automatically adjusts the processor fan speed based on the processor temperature and adjusts the chassis fan speeds depending on the system temperature. System fan noise may be reduced by operating controlled chassis and processor fans at the minimum necessary speeds.
- 12 Instantly-Available PC (suspend-to-RAM):** Enables advanced power savings (not pictured).

## Intel® Desktop Boards



Segment	Intel® Desktop Board D915PBL Upper Mainstream—ATX	Intel® Desktop Board D915PCY Mainstream ATX
<b>Product Code/UPC</b>	<b>BOXD915PBLL</b> (Intel® PRO 10/100) / <b>00735858166430</b>	<b>BOXD915PCY / 00735858166638</b> <b>BOXD915PCYL</b> (Intel® PRO 10/100) / <b>00735858166652</b>
<b>10-pack Product Code/UPC</b>	BLKD915PBLL (Intel PRO 10/100) / 00735858166447 KD915PBLLPAK10 (Intel PRO 10/100)	BLKD915PCY / 00735858166621 KD915PCYPAK10 BLKD915PCYL (Intel PRO 10/100) / 00735858166645 KD915PCYLPK10 (Intel PRO10/100)
<b>Processor Support</b>	Intel® Pentium® 4 processors in the LGA775 package Supports boxed Intel processors with packaging designated by 04B or 04A	Intel® Pentium® 4 processors in the LGA775 package Supports boxed Intel processors with packaging designated by 04B or 04A
<b>Supported FSB</b>	800 MHz / 533 MHz	800 MHz / 533 MHz
<b>Chipset</b>	Intel® 915P Express Chipset	Intel® 915P Express Chipset
<b>Supports HT Technology<sup>1</sup></b>	Yes	Yes
<b>Graphics</b>	None	None
<b>Graphics Connector</b>	PCI Express* x16	PCI Express* x16
<b>Memory Support</b>	DDR2 533/400 SDRAM 4 slots, Dual-channel (4 GB Max)	DDR2 533/400 SDRAM 4 slots, Dual-channel (4 GB Max)
<b>Expansion Slots</b>	2 PCI Express* x1, 4 PCI	2 PCI Express* x1, 4 PCI
<b>Audio</b>	Intel® High Definition Audio: Flexible 8-channel audio with jack sensing (back ports: 5 analog, 1 optical, 1 coax)	Intel® High Definition Audio: Flexible 6-channel audio with jack sensing
<b>USB Ports</b>	Hi-Speed USB 2.0, 4 Back Ports / 4 Ports via 2 internal headers	Hi-Speed USB 2.0, 4 Back Ports / 4 Ports via 2 internal headers
<b>1394</b>	1 back, 2 internal headers	None
<b>Storage</b>	SATA150 (1.5 Gb/s) (4 ports) and ATA100/66 up to two devices	SATA150 (1.5 Gb/s) (4 ports) and ATA100/66 up to two devices
<b>RAID</b>	Intel® Matrix Storage Technology (RAID 0/15)	None
<b>On-Board LAN</b>	Intel PRO 10/100	Intel PRO 10/100 or No-LAN
<b>TPM</b>	No	No
<b>Software</b>	Intel® Express Installer Supports Intel® Desktop Control Center Intel® Audio Studio** (with Dolby* Digital Live and Sonic Focus*) Intel® Desktop Utilities*** Norton Internet Security* NTI CD-Maker* Musicmatch* Jukebox Diskeeper* Lite GameSpy* InterVideo* Home Theater Silver InterVideo* WinDVD Creator Silver Farstone* RestoreIT! Lite LANDesk* System Manager <sup>†</sup>	Intel® Express Installer Intel® Desktop Utilities*** Sonic Focus* Norton Internet Security* NTI CD-Maker* Musicmatch* Jukebox InterVideo* Home Theater Silver InterVideo* WinDVD Creator Silver Farstone* RestoreIT! Lite LANDesk* System Manager <sup>†</sup>
<b>Warranty</b>	Three-year limited warranty	Three-year limited warranty



Intel® Desktop Board D915PCM Mainstream MicroATX	Intel® Desktop Board D915PGN Mainstream ATX	Intel® Desktop Board D915PSY Mainstream MicroATX
<b>BOXD915PCML</b> (Intel® PRO 10/100) / <b>00735858166607</b>	<b>BOXD915PGN / 00735858166294</b> <b>BOXD915PGNL</b> (Intel® PRO 10/100) / <b>00735858166270</b>	<b>BOXD915PSYL</b> (Intel® PRO 10/100) / <b>00735858166324</b>
BLKD915PCML (Intel PRO 10/100) / 00735858166614 KD915PCMLPAK10 (Intel PRO 10/100)	BLKD915PGN / 00735858166300 KD915PGNPAK10 BLKD915PGNL (Intel PRO 10/100) / 00735858166287 KD915PGNLPAK10 (Intel PRO 10/100)	BLKD915PSYL (Intel PRO 10/100) / 00735858166331 KD915PSYLPAK10 (Intel PRO10/100)
Intel® Pentium® 4 processors in the LGA775 package Supports boxed Intel processors with packaging designated by 04B or 04A	Intel® Pentium® 4 processors in the LGA775 package Supports boxed Intel processors with packaging designated by 04B or 04A	Intel® Pentium® 4 processors in the LGA775 package Supports boxed Intel processors with packaging designated by 04B or 04A
800 MHz / 533 MHz	800 MHz / 533 MHz	800 MHz / 533 MHz
Intel® 915P Express Chipset	Intel® 915P Express Chipset	Intel® 915P Express Chipset
Yes	Yes	Yes
None	None	None
PCI Express* x16	PCI Express* x16	PCI Express* x16
DDR2 533/400 SDRAM 4 slots, Dual-channel (4 GB Max)	DDR 400/333 SDRAM 4 slots, Dual-channel (4 GB Max)	DDR 400/333 SDRAM 4 slots, Dual-channel (4 GB Max)
1 PCI Express* x1, 2 PCI	2 PCI Express* x1, 4 PCI	1 PCI Express* x1, 2 PCI
Intel® High Definition Audio: Flexible 6-channel audio with jack sensing	Intel® High Definition Audio: Flexible 6-channel audio with jack sensing	Intel® High Definition Audio Flexible: 6-channel audio with jack sensing
Hi-Speed USB 2.0, 4 Back Ports / 4 Ports via 2 internal headers	Hi-Speed USB 2.0, 4 Back Ports / 4 Ports via 2 internal headers	Hi-Speed USB 2.0, 4 Back Ports / 4 Ports via 2 internal headers
None	None	None
SATA150 (1.5 Gb/s) (4 ports) and ATA100/66 up to two devices	SATA150 (1.5 Gb/s) (4 ports) and ATA100/66 up to two devices	SATA150 (1.5 Gb/s) (4 ports) and ATA100/66 up to two devices
None	None	None
Intel PRO 10/100	Intel PRO 10/100 or No-LAN	Intel PRO 10/100
No	No	No
Intel® Express Installer Intel® Desktop Utilities*** Sonic Focus* Norton Internet Security* NTI CD-Maker* Musicmatch* Jukebox InterVideo* Home Theater Silver InterVideo* WinDVD Creator Silver Farstone* RestoreIT! Lite LANDesk* System Manager†	Intel® Express Installer Intel® Desktop Utilities*** Sonic Focus* Norton Internet Security* NTI CD-Maker* Musicmatch* Jukebox InterVideo* Home Theater Silver InterVideo* WinDVD Creator Silver Farstone* RestoreIT! Lite LANDesk* System Manager†	Intel® Express Installer Intel® Desktop Utilities*** Sonic Focus* Norton Internet Security* NTI CD-Maker* Musicmatch* Jukebox InterVideo* Home Theater Silver InterVideo* WinDVD Creator Silver Farstone* RestoreIT! Lite LANDesk* System Manager†
Three-year limited warranty	Three-year limited warranty	Three-year limited warranty

# Technical Specifications

## Processor

### Processors Supported

Intel® Pentium® 4 processor supporting Hyper-Threading Technology<sup>2</sup> with 800-MHz system bus in the LGA775 socket

Intel® Pentium® 4 processors with 533-MHz system bus in the LGA775 socket

Supports boxed Intel processors with packaging designated by 04B or 04A

### Intel® 915P Express Chipset

Intel® 82915P Memory Controller Hub (MCH)

Intel® 82801FR I/O Controller Hub (ICH6-R) (Desktop Board D915PBL)

Intel® 82801FB I/O Controller Hub (ICH6) (Desktop Boards D915PCY/CM/GN/SY)

Firmware Hub (FWH)

### Graphics Memory Controller Hub (GMCH)

Designed to support up to 4 GB<sup>3</sup> of system memory using DDR2 533/400 (Desktop Boards D915PBL/CY/CM) or DDR 400/333 (Desktop Boards D915PGN/SY) SDRAM memory

### Intel® ICH6 or ICH6-R (D915PBL only) I/O Controller Hub

Four SATA (1.5 Gb/s) ports

Up to two ATA 100/66 devices

Four PCI request-grant pairs for support of four PCI bus masters (Desktop Boards D915PBL/CY/GN)

Two PCI request-grant pairs for support of two PCI bus masters (Desktop Boards D915PCM/SY)

Intel® PRO/100 network connection (optional)

### I/O Features

Integrated super I/O LPC bus controller:

- Four PCI local bus slots (Desktop Boards D915PBL/CY/GN)
- Two PCI Express\* x1 local bus slots (Desktop Boards D915PBL/CY/GN)
- Two PCI local bus slots (Desktop Boards D915PCM/SY)
- One PCI Express\* x1 local bus slot (Desktop Boards D915PCM/SY)

### USB 2.0

Integrated Intel® ICH6 controllers:

- Four back-panel ports (two dual stack)
- Four front-panel ports (via 2-headers requiring cabling to front panel)

## Firmware Hub

### System BIOS

4-Mb Flash EEPROM with Intel/AMI\* BIOS featuring Plug and Play, IDE drive auto-configure

Advanced configuration and power interface V1.0b, DMI 2.0, multilingual support

### Intel® Rapid BIOS Boot

Optimized POST for fast access to PC from power-on

## System Memory

### Memory Capacity

Four 240-pin DIMM connectors supporting up to four double-sided DIMMs (Desktop Boards D915PBL/CY/CM)

Four 184-pin DIMM connectors supporting up to four double-sided DIMMs (Desktop Boards D915PGN/SY)

### Memory Types

DDR2 533/400 SDRAM memory (Boards D915PBL/CY/CM)

DDR 400/333 SDRAM memory (Desktop Boards D915PGN/SY)

Non-ECC RAM (ECC memory will run in non-ECC mode)

### Memory Modes

Dual- and single-channel operation support

### Memory Voltage

1.8V (Desktop Boards D915PBL/GN/SY)

2.5V (Desktop Boards D915PGN/SY)

### Hardware Management Features

Processor fan speed control

System chassis fan speed control

Voltage and temperature sensing

Fan sensor inputs used to monitor fan activity

Power management support for ACPI 1.0b

### Wake-Up From Network

Wired for Management (WfM) 2.0-compatible

Support for system wake-up using an add-in network interface card with remote wake-up capability or integrated LAN

### Expansion Capabilities

Four PCI bus add-in card connectors (Desktop Boards D915PBL/CY/GN)

Two PCI Express\* x1 bus add-in card connectors (Desktop Boards D915PBL/CY/GN)

Two PCI bus add-in card connectors (Desktop Boards D915PCM/SY)

One PCI Express\* x1 bus add-in card connector (Desktop Boards D915PCM/SY)

One PCI Express\* x16 graphics connector

## Jumpers and Front-Panel Connectors

### Jumpers

Single configuration jumper design

Jumper access for BIOS configuration mode

### Front-Panel Connectors

Reset, HD LED, Power LEDs, power on/off

Two front-panel Hi-Speed USB 2.0 headers

Front-panel audio header

## Mechanical

### Board Style

Desktop Boards D915PBL/CY/GN—ATX 2.03-compliant  
Desktop Boards D915PCM/SY—MicroATX 1.0-compliant

### Board Size

Desktop Boards D915PBL/CY/GN—12" x 9.6"  
Desktop Boards D915PCM/SY—9.6" x 9.6"

### Baseboard Power Requirements

Desktop Boards D915PBL/CY/GN—ATX12V  
Desktop Boards D915PCM/SY—ATX12V or SFX12V

### Environment Operating Temperature

0° C to +55° C

### Storage Temperature

-40° C to +70° C

## Regulations

### Safety Regulations

#### U.S. and Canada

UL 1950, Third edition—CAN/CSA C22.2 No. 950-95 with recognized U.S. and Canadian component marks

#### Europe

Nemko certified to EN 60950

#### International

Nemko certified to IEC 60950 (CB report with CB certificate)

### EMC regulations

#### (tested in representative chassis)

##### U.S.

FCC Part 15, Class B

##### U.S.

FCC Part 15, Class B open-chassis (cover off) testing

##### Canada

ICES-003, Class B

##### Europe

EMC directive 89/336/EEC; EN 55022:1998, Class B; EN 55024:1998

##### Australia/New Zealand

AS/NZS 3548, Class B

##### Taiwan

CNS 13438, Class B

##### International

CISPR 22:1997, Class B

Power requirements vary. Complies with US CRF via EN55022 +6 db in system configurations with an open chassis and EU Directive 89/336/EEC and use via EN55022 and EN50082-1 in a representative chassis.

**Ordering Information: See Intel's Web site at [www.intel.com](http://www.intel.com).**

**For the most current product information available, visit Intel's Web site at: [developer.intel.com/design/motherbd/](http://developer.intel.com/design/motherbd/)**

<sup>1</sup> Look for systems with the Intel® Pentium® 4 Processor with HT Technology logo and also including an Intel® 925X or 915 Express Chipset (see the product spec sheet or ask your salesperson). Performance and functionality will vary depending on (i) the specific hardware and software you use and (ii) the feature enabling/system configuration by your system vendor. See <http://www.intel.com/info/hyperthreading> for information on HT Technology or consult your system vendor for more information.

<sup>2</sup> Hyper-Threading Technology requires a computer system with an Intel® Pentium® 4 processor supporting Hyper-Threading Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use.

See <http://www.intel.com/info/hyperthreading/> for more information including details on which processors support HT Technology.

<sup>3</sup> Desktop Boards D915PBL, D915PCY, D915PCM, D915PGN, and D915PSY were designed to support up to 4 GB total system memory using DIMMs based on 512-Mbit or 1-Gbit technologies. 1-Gbit technology has not been validated on these Intel® desktop boards. For more information about the latest list of tested memory, refer to the Intel World Wide Web site at: <http://support.intel.com/support/motherboards/desktop/>.

\*\* Intel® Audio Studio combines Intel® High Definition Audio hardware with Sonic focus™ audio refinements.

\*\*\* Intel® Desktop Utilities includes: hardware monitoring, Diskkeeper™ Lite defragmentation, NTI Backup Now™, StressTest™, Symantec™ Security Check.

<sup>1</sup> Available by Internet download only. Third-party user registration required.

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