

Detailed specifications - ThinkCentre 8171

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Architecture

System board / Form factor

- Small Form Factor (2x3) with Intel 915G chipset
- Supports Intel Prescott Pentium 4 processors with 800MHz FSB and 1MB L2 cache, and built on a 90nm core
- Supports Intel Prescott Celeron processors with 533MHz FSB and 256KB L2 cache, and built on a 90nm core
- LGA 775 socket

Processor

- Intel® Pentium® 4 Processor 520 with HT Technology
- Intel® Pentium® 4 Processor 530 with HT Technology
- Intel® Pentium® 4 Processor 540 with HT Technology
- Intel® Pentium® 4 Processor 550 with HT Technology
- Intel® Pentium® 4 Processor 630 with HT Technology
- Intel® Pentium® 4 Processor 640 with HT Technology
- Intel® Celeron® D Processor 325J
- Intel® Celeron® D Processor 330J
- Intel® Celeron® D Processro 335J
- Intel® Celeron® D Processro 345J

Cache

- 256KB to 1MB cache, processor dependent

Chipsets

- Intel 915G core chipset
- Integrated Intel Graphics Media Accelerator 900
- I/O Controller Hub (ICH6)
- AC '97 2.3 Digital controller

Hard disk drive controller

- 2 Serial ATA connectors
- 1 Parallel ATA connector

Memory

- PC3200, 400MHz, DDR1 SDRAM memory supported
- Two 184-pin DDR DIMM sockets
- Supports a maximum memory up to 2.0GB
- ECC or parity memory is not supported
- [Option part numbers for memory](#)

Audio

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- SoundMAX Cadenza with SPX
 - Integrated PCI AC'97 2.3 compliant CODEC
 - ADI 1981B CODEC
 - Rear - Line-in, line-out
 - Front - Microphone input, headphone output, IEEE 1394 option
 - Software-based audio (done by processor and ICH6)
 - Internal mono speaker
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Keyboard and mouse

- Preferred Pro full-size keyboard
- Optical wheel mouse
- Option part numbers for pointing device

Communications

Networking

- Integrated Broadcom 10/100/1000 Ethernet with Wake on LAN
- Broadcom BCM5705 controller
- Models with Gigabit Ethernet are considered Class A digital devices.
- Option part numbers for networking

Expansion

Bays

- One 5.25 inch, half-height 1.6 inch, external access, optical drives
 - One 3.5 inch, slim-line 1 inch, external access, diskette drive
 - One 3.5 inch, slim-line 1 inch, internal access, hard disk drive
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External ports

- Eight USB ports (two in front, six in back), USB 2.0
 - Two 9-pin 16550 serial ports
 - One 25-pin parallel port port, support EPP and ECP operation
 - Keyboard, monitor, and mouse ports
 - Microphone input, line-out, line in audio jacks
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Slots

- Slot 1: half length, 1 lane PCI Express (graphics)
 - Slot 2: full height, half length, 32-bit PCI 2.2 (5v)
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Power

Power management

- APM 1.2 and ACPI 1.0b compliant
 - Remote Program Load (RPL) and Dynamic Host Configuration Protocol (DHCP)
 - Wake on LAN
 - Wake on Serial port (RS232) from ACPI S1, S3, and S5
 - Wake on USB from ACPI S1 and S3
 - Wake on PS/2 keyboard/mouse from ACPI S1 and S3
 - DMI V2.0 compliant
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Power supply

- 225 watt supply with variable fan speed
 - 110 volt or 220 volt operation controlled by a switch on the back of the unit
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Security

- U-Bolt anchoring feature

- Security slot (in rear for attachment of optional cable lock)
- Keylock (available on selected models)
- Power-on password
- Configuration password (administrator password)
- Hard disk password (user and master)
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard, mouse, or diskette
- Diskette I/O control
- Serial port I/O control
- Parallel port I/O control

Promise of Value (POV)

- Offers platform and user authentication (requires download of security software)
- Executes all private key-related Public Key Infrastructure (PKI) operations right on the chip (requires third party digital certificate, not included)
- Designed to enable secure storage of private keys (requires third party digital certificate)
- Supports industry standard cryptographic interface (MSCAPI and PKCS#11) Provides more secure access authentication by coordinating with Windows logons and strengthening Lotus Notes logons
- Encrypts and decrypts files, folders, and messages with 1024-bit digital signature and up to 256-bit key exchange
- Digital signatures allow non-repudiation and data integrity
- Integrates with optional biometrics and proximity badges
- Adheres to the Trusted Computing Group specification recognized by over 180 companies

Software

Operating system

- [Microsoft Windows XP Professional](#)
- [Microsoft Windows XP Home](#)

Note: Preloaded software utilizes the [disk-to-disk recovery](#) method.

Storage

Optical drive

- 48x CD-ROM
- 48x32x48x CD-RW
- 48x32x48x16x CD-RW/DVD combo
- Multi-Burner Plus
- [Option part numbers for CD-ROM drives](#)

Hard drive features

- 7200RPM Serial ATA supported
- [Option part numbers for hard drives](#)

Video

Integrated Intel Graphics Media Accelerator 900

- 15-pin VGA output on planar
- Uses Intel Dynamic Video Memory Technology (DVMT)
- 400MHz DAC

For models without a separate video card, memory supports both system and video.

Resolution, maximum color depth, and refresh rates

- 640x480x16M colors (60, 72, 75, 85, 100, 120Hz)
- 800x600x16M colors (60, 72, 75, 85, 100, 120Hz)
- 1024x768x16M colors (60, 70, 75, 85, 100, 120Hz)
- 1152x864x16M colors (60, 75, 85, 100Hz)

- 1280x720x16M colors (60, 75, 85, 100Hz)
- 1280x768x16M colors (60, 75, 85 Hz)
- 1280 x 960, 16M colors (60, 75, 85 Hz)
- 1280 x 1024, 16M colors (60, 75, 85, 100 Hz)
- 1400 x 1050, 16M colors (60, 75, 85 Hz)
- 1600 x 900, 16M colors (60, 75, 85, 100 Hz)
- 1600x1200x16M colors (60, 75, 85Hz)
- 1856 x 1393x16K colors (60 Hz)
- 1920x1080x16K colors (60, 75Hz)
- 1920 x 1200x16K colors (60 Hz)

The attached monitor will affect the modes and frequencies available.
Modes supported by an operating system are device driver dependent.

Applicable countries and regions

Worldwide

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