

Great technology and affordable prices



## IBM ThinkCentre A50 and A51p desktops



U.S. Special Offers

**IBM recommends Microsoft® Windows® XP Professional for Business.**



IBM ThinkCentre A51p desktop with PCI Express slot and optional IBM ThinkVision™ monitor.

### Highlights

- **Work quickly while multiple applications are running with Intel® Pentium® 4 Processors with HT Technology (select models).**
- **Upgrade graphics performance with the PCI Express Graphics slot on select IBM ThinkCentre™ A51p models.**
- **Help increase productivity with up to 2.8GHz Intel® Celeron® Processors (select models).**
- **Store and access data with a choice of optical drives, including the IBM Multi-Burner Plus.**
- **Rotate complex 2D and 3D images fast with integrated Intel® Extreme Graphics 2 or Intel® Graphics Media Accelerator 900 (select models).**
- **Enjoy attractive prices and great technology on ThinkCentre A Series models in the IBM Think Express program. You'll get quick delivery on select Think Express program purchases.**

### Affordable ThinkCentre performance

Put plenty of computing power in your office with ThinkCentre A Series desktops. Developed for businesses with 50 to 500 people, Think Express models offer the PCs you want at great prices. Certain models offer Intel Pentium 4 Processors with HT Technology. All feature a choice of optical drives and options to meet your needs.

### Excellent graphics capabilities

With integrated Intel Extreme Graphics 2 or Intel Graphics Media Accelerator 900, you have PCs that can keep up with your company's big, bright, visual ideas. To upgrade graphics performance or work with multiple monitors, certain ThinkCentre A51p models feature a PCI Express slot.

### Business advantage. It's in here.

To help decrease expenses over the lifetime of your PCs, look inside for IBM ThinkVantage™ Technologies and ThinkVantage Design elements. You'll see how to work more confidently and efficiently—and gain more time to focus on strategic goals.

Call **1 888 SHOP IBM** or go to **ibm.com** (U.S.) or **ibm.ca** (Canada) to buy direct, locate an IBM reseller or for more information.



**Intel Inside® Confidence Outside.**

## Get the edge: IBM ThinkVantage Technologies and Designs

- **Simplify rollouts.** With downloadable System Migration Assistant, transfer existing files, applications and settings from system to system more easily.
- **Rely on the most secure desktops in the industry.** ThinkCentre A51p desktops and other select models feature the IBM Embedded Security Subsystem 2.0. It provides built-in hardware and downloadable software-based protection. Nobody offers stronger PC security as a standard feature.
- **Rest on strong foundations.** These durable steel chassis are designed to support the weight of even large CRT monitors.
- **Service, maintain and upgrade ThinkCentre A Series desktops more easily,** thanks to an easy-open chassis and components that, in most cases, snap in and out without tools.
- **Put online<sup>1</sup> and on-system information at your fingertips** with Access IBM. With the push of a button, you and your employees can gain answers to common IT questions.
- **Help reduce help desk calls.** Meet IBM Rescue and Recovery™ with Rapid Restore™ software. It's preloaded on select ThinkCentre A Series desktops. With this enhanced, one-button solution, you can restore systems yourself—often without a call to the help desk.
- **Phase out older technology safely.** Erase confidential data with IBM Secure Data Disposal.



IBM ThinkCentre A51p desktop shown with optional IBM ThinkVision monitor.

## Enhance performance.

### IBM ThinkVision™ L170p flat panel monitor

6734HBO

Space-saving and height-adjustable. Tilts and swivels for easy viewing.



73P3305



### IBM Multi-Burner Plus

Reads and writes all DVD and CD formats.

73P3300



### IBM 48X/32X/48X/16X Max CD-RW/DVD ROM Combination Drive

View DVDs and create CDs quickly and easily.

## Offices in Oslo?

**IBM is there.** With award-winning IBM Service and Support in more than 160 countries<sup>2</sup> worldwide, IBM offers help just about anywhere you have offices. In fact, IBM is one of the largest service and support organizations in the world. Even IBM ThinkCentre A Series desktops help. They provide a wealth of online and on-system resources at the push of a button.

## IBM recommends Microsoft® Windows® XP Professional for Business.

## IBM ThinkCentre A50 and A51p desktop specifications

	A51p Tower 8422, 8423, 8427	A50 Tower 8084, 8085, 8147, 8148	A50 Desktop 8177, 8149
<b>Intel® Processor/Level 2 Cache<sup>3</sup></b>			
up to Intel® Pentium® 4 Processor 560 with HT Technology (800MHz FSB)	up to 3.6GHz/1MB	—	—
up to Intel® Pentium® 4 Processor with HT Technology (800MHz FSB)	—	up to 3.2GHz/1MB	up to 3.2GHz/1MB
Intel® Pentium 4 Processor	2.8GHz/1MB	up to 2.8GHz/512KB	up to 2.8GHz/512KB
Intel® Celeron® Processor (400MHz FSB)	—	up to 3.06GHz/512KB	up to 3.06GHz/512KB
<b>Preloaded operating system<sup>4</sup></b>	Microsoft® Windows® XP Professional or Microsoft Windows XP Home Edition		
<b>Video graphics</b> (integrated)	Intel® Graphics Media Accelerator 900, PCI Express 16-lane Graphics slot ❖	Intel® Extreme Graphics 2, 8X AGP (865G models) ❖❖	Intel Extreme Graphics 2, 8X AGP (865G models)
<b>Core chipset</b>	Intel® 915G Express	Intel 865G or GV	Intel 865G or GV
<b>Memory<sup>5</sup>/max capacity<sup>6</sup></b>	DDR2 PC3200/4.0GB <sup>7</sup>	DDR PC2700 or PC3200/4.0GB	DDR PC2700 or PC3200/4.0GB
<b>Hard disk drive</b> ATA/100 or Serial ATA (2 serial connectors)	— up to 160GB (7200rpm)	up to 120GB (7200rpm) up to 160GB (7200rpm)	up to 80GB (7200 RPM) up to 80GB (7200 RPM)
<b>Optical drive</b> (select models)	CD-ROM, CD-RW, CD-RW/DVD-ROM Combo or Multi-Burner	None, CD-ROM, DVD-ROM, CD-RW, CD-RW/DVD-ROM Combo or Multi-Burner	None, CD-ROM, DVD-ROM or CD-RW
<b>Audio</b> (integrated)	Intel® SoundMAX Cadenza (ADI 1981B); or SoundMAX with SPX; line in, line out, microphone ports; external speakers (select models)		
<b>Connectivity</b> (integrated)	Broadcom NetXtreme Gigabit	Intel® PRO/100	Intel PRO/100
<b>IBM Embedded Security Subsystem 2.0</b>	Standard	—	—
<b>Slots x bays</b>	4x5	4x5 (865G models) or 3x5 (865GV models)	4x4 (865G models) or 3x4 (865GV models)
<b>Dimensions</b>	475x176x425mm	191x406x413mm	425x414x140mm
<b>Ports</b>	8 USB 2.0 (2 front-access), 1 serial, 1 parallel, PS/2 mouse, keyboard, VGA	6 USB 2.0 (2 front-access), 1 serial, 1 parallel, PS/2 mouse, keyboard, VGA	6 USB 2.0 (2 front-access), 1 serial, 1 parallel, PS/2 mouse, keyboard, VGA
<b>Keyboard and mouse</b>	IBM Preferred Pro PS/2 or IBM Enhanced Performance USB Keyboard and standard PS/2, mechanical wheel or IBM USB Optical Wheel Mouse (varies by model)		

Visit [ibm.com/thinkcentre](http://ibm.com/thinkcentre) for more information and details by model.

❖ = Contains graphics card in select models (ATI RADEON X300 SE, ATI RADEON X300 PRO, ATI RADEON X600 XT)

❖❖ = Contains graphics card in select models NVIDIA GeForce4 MX440 64MB (VGA); ATI RADEON 9200 64MB (VGA and TV-out)

For important warranty information, see page 4.

## IBM ThinkCentre A50 and A51p software

<b>Preloaded operating system</b> (varies by model)	Microsoft Windows XP Professional or Microsoft Windows XP Home Edition	
<b>Tested operating systems<sup>8,9</sup></b>	Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Professional	
<b>Included software<sup>10</sup></b> (preloaded)	<ul style="list-style-type: none"> <li>• Access IBM</li> <li>—Access Help</li> <li>—Access Support</li> <li>• Adobe Acrobat Reader</li> <li>• IBM Rescue and Recovery with Rapid Restore™</li> </ul>	<ul style="list-style-type: none"> <li>• IBM RecordNow and DLA (CD-RW models only)</li> <li>• Intervideo WinDVD player (DVD models only)</li> <li>• Norton AntiVirus (OEM Edition)</li> <li>• PC-Doctor</li> <li>• Update Connector™.11</li> </ul>
(downloadable)	<ul style="list-style-type: none"> <li>• IBM Client Security Software (Embedded Security Subsystem models only)</li> <li>• IBM Director Agent</li> <li>• Software Delivery Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• System Migration Assistant</li> </ul>
(license—CD not included)	<ul style="list-style-type: none"> <li>• Lotus® SmartSuite® Millennium</li> </ul>	<ul style="list-style-type: none"> <li>• Lotus Notes® Stand-alone Client</li> </ul>

## Warranty coverage.

IBM offers a one- or three-year limited warranty<sup>12</sup>, standard, as well as international warranty service and optional service plans for greater protection.



Intel Inside®  
Confidence Outside.

# Your next step is easy.

## Check the Web.

- **ThinkVantage Technologies**  
U.S. **ibm.com**/thinkvantage  
Canada **ibm.ca**/think
- **ThinkCentre**  
U.S. **ibm.com**/thinkcentre  
Canada **ibm.ca**/thinkcentre
- **Accessories and upgrades**  
U.S. **ibm.com**/pc/options  
Canada **ibm.ca**/options
- **eSupport**  
U.S. **ibm.com**/support  
Canada **ibm.com**/support/ca/en
- **Presentations and 3D Tours**  
U.S. **ibm.com**/pc/webcast  
Canada **ibm.com**/ca/webcast
- **PC Services**  
**ibm.com**/pc/services
- **Financing**  
**ibm.com**/pc/financing
- **PC Product Training**  
**ibm.com**/pc/training

## Read on.

### Download product literature.



- ThinkCentre  
**ibm.com**/pc/us/desktop/literature
- ThinkPad  
**ibm.com**/pc/us/thinkpad/literature

## Call us.

### Request an IBM PC Catalog or Buy Direct

1 888 SHOP IBM

### Reseller locator

U.S.  
1 800 IBM-4968  
Canada  
1 800 IBM-2255

### PCD HelpCenter®

U.S. 1 800 426-7378  
Canada 1 800 565-3344

### IBM Asset Recovery Solutions for disposal and recycling of your systems (U.S. only)

1 888 SHOP IBM (option 1, enter 7615)



© Copyright IBM Corporation 2004

Produced in the USA  
06-04  
All Rights Reserved

Visit **ibm.com**/safecomputing periodically for the latest information on safe and effective computing.

#### Warranty information:

For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept JDJA/B203. IBM makes no representation or warranty regarding third party products or services.

- 1 Requires separate Internet access account; not included.
- 2 International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
- 3 At processor speed.
- 4 Delivered with Microsoft Windows XP Professional or Microsoft Windows XP Home Edition preloaded and a recovery partition on the hard disk drive.
- 5 For ThinkCentre desktops without a separate video card, memory supports both system and video. Accessible system memory may be up to 64MB less than the amount stated, depending on video mode.

- 6 Maximum memory capacity may require the replacement of standard component with largest supported component available.
- 7 For hard disk drive, GB=billion bytes. Accessible capacity is less; up to 4GB is service partition.
- 8 Drivers available via the Internet. HelpCenter supports only preloaded OS.
- 9 Some software may vary from its retail version (if any) and may not include user manuals or all program functionality. Warranty service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software, applicable third-party software licenses may apply.
- 10 Certain Microsoft software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).
- 11 Update Connector is available at no charge to registered ThinkCentre customers during the limited warranty period. Line charges may apply.
- 12 Support unrelated to warranty issues may be subject to additional charges.

As an ENERGY STAR partner, IBM has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.



Intel Inside®  
Confidence Outside.

IBM reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies or typographical errors. References herein to IBM products and services do not imply that IBM intends to make them available in other countries. IBM PROVIDES THIS PUBLICATION "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions; therefore, this disclaimer may not apply to you.

IBM, the IBM logo, HelpCenter, Rapid Restore, Rescue and Recovery, ThinkCentre, ThinkPad, ThinkVantage, ThinkVision and Update Connector are trademarks of IBM Corporation in the United States and/or other countries. Intel, Intel Inside, the Intel Inside logo, Pentium and Celeron are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Lotus, Lotus Notes, and Lotus SmartSuite are registered trademarks of Lotus Development Corporation. Microsoft and Windows are registered trademarks of Microsoft Corporation. Other company, product and service names may be trademarks or service marks of others.

Made in Japan, Korea, Mexico, Scotland and Taiwan.