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Overview - ThinkCentre M55 (type 8811)

Features and specifications

Processor

- Intel® Celeron® D Processor 336
- Intel® Celeron® D Processor 341
- Intel® Celeron® D Processor 346
- Intel® Celeron® D Processor 351
- Intel® Celeron® D Processor 352
- Intel® Pentium® D 805
- Intel® Pentium® D 820
- Intel® Pentium® D 915
- Intel® Pentium® D 925
- Intel® Pentium® D 935
- Intel® Pentium® D 945
- Intel® Core 2 Duo Processor E4300
- Intel® Core 2 Duo Processor E6300
- Intel® Core 2 Duo Processor E6400
- Intel® Core 2 Duo Processor E6600

Memory

- 256MB, 512MB, 1GB
- Supports up to 8.0GB maximum memory

Hard drive

- 80 GB 7200RPM S-ATA
- 160 GB 7200RPM S-ATA
- 250 GB 7200RPM S-ATA

Graphics

- [Integrated Intel Graphics Media Accelerator 3000](#)
- [ATI Radeon X300SE](#) (select models)

CD and DVD drive

- 48 x CD-ROM
- 16 x DVD-ROM
- 48 x32x48 x16x CD-RW/DVD combo drive
- Multi-Burner Plus 16 x

Networking

- Integrated Broadcom 10/100/1000 (Gigabit) Ethernet

Security

- Chassis intrusion switch (select models)

Operating System

- DOS License
- Microsoft Windows XP Home
- Microsoft Windows XP Professional
- Microsoft Windows Vista Home Basic Edition 32
- Microsoft Windows Vista Business Edition 32

ThinkVantage Technologies

ThinkVantage Technologies help our customers become more competitive by delivering industry-leading capabilities that improve productivity and reduce cost. ThinkVantage Technologies includes features such as deployment, backup, security (select models) and more.

Detailed specifications

All specifications for the ThinkCentre M55 type (8811)

Note: Specifications are dependent on the machine type and model

Warranty

- [View warranty status for a machine](#)
- [Warranty information and service upgrades](#)

For additional warranty information, refer to the Statement of Limited Warranty.

System locations, ports, and features

- [Locating front connectors](#)
- [Locating rear connectors](#)
- [System board diagram](#)

Additional product information

- [Troubleshooting](#) - Step-by-step instructions for solving common computer issues
- [Hardware removal and installation](#) - Index for removing or installing options and service parts (text version)

Manuals

- [Hardware Maintenance Manual](#) - Information regarding diagnostics, hardware interfaces, and replacement (FRU) part numbers
- [Hardware replacement guide](#) - Information on removing and replacing customer replacement units (CRUs), including power supply, system board, microprocessor, hard disk drive, memory, and adapter cards
- [User guide](#) - General information including care and setup instructions
- [Safety and Warranty guide](#) - Information regarding software recovery, the Statement of Limited Warranty, basic troubleshooting, and setup instructions

Service parts

- [System](#)
- [Recovery CD](#)

Country Availability

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Detailed specifications - ThinkCentre M55 (type 6487, 8012, 8794, 8798, 8802, 8806, 8811, 8816)

- [Architecture](#)
- [Communications](#)
- [Expansion](#)
- [Power](#)

- [Security](#)
- [Software](#)
- [Storage](#)
- [Video](#)

Architecture

System board / Form factor

- Tower (4x5) with Intel® Q965 chipset
- Supports Intel® Celeron® D processor with 533MHz FSB and 256KB L2 cache
- Supports Intel® Pentium® D processors with 800MHz FSB with 2x2MB L2 cache
- Supports Intel® Pentium® D processors with 800MHz FSB and 2x1MB L2 cache
- Supports Intel® Core™ 2 Duo processor with 1066 MHz FSB and 2MB L2 cache
- Custom BTX form factor

Note: Hyperthreading is supported only with Microsoft Windows XP Service Pack 1. Hyperthreading must be disabled when using Windows 2000.

Processor

- Intel® Celeron® D Processor 336
- Intel® Celeron® D Processor 341
- Intel® Celeron® D Processor 346
- Intel® Celeron® D Processor 351
- Intel® Pentium® D Processor 820
- Intel® Pentium® D Processor 915
- Intel® Pentium® D Processor 945
- Intel® Core™ 2 Duo Processor E6300
- Intel® Core™ 2 Duo Processor E6400
- Intel® Core™ 2 Duo Processor E6600

Cache

- 256KB cache - Celeron® processors
- 2x1MB L2 or 2x2MB L2 cache - Pentium D processors
- 2MB or 4MB L2 cache - Core 2 Duo processors

Chipsets

- Intel Q965
 - Integrated Intel Graphics Media Accelerator 3000
 - Q965 "G" Northbridge
 - ICH8 Southbridge
 - SMSC 5407 Super IO

IDE controller

- 4 Serial ATA connectors
- No parallel ATA support

Memory

- PC2-4200 memory supported
- PC2-5300 memory supported
- PC2-6400 memory supported
- Four 240 pin DDR2 SDRAM UDIMM sockets
- Supports a maximum memory up to 8GB
 - Total useable memory can be less than 8 GB depending on the operating system and system configuration.
- ECC or parity memory is not supported

For models without a separate video card, memory supports both system and video. Accessible system memory may be up to 64 MB less than the amount stated, depending on video mode.

Audio

- Integrated High Definition (HD) PCI AC'97 2.3 compliant codec
- ADI1983 HD CODEC
- Front - Microphone -in, headphones out
- Rear - Line-in, line-out
- Jack sensing, jack retasking - software will automatically detect which jack the microphone is using.
- Software-based audio (done by processor and ICH8)

Keyboard and mouse

- Preferred Pro full-size keyboard
- USB Optical Wheel mouse

Communications

Networking

- Integrated Broadcom Gigabit (10/100/1000)
 - TPM v1.2

Expansion

Bays

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

External ports

- Eight USB (two in front, six in back) [Ver 2.0]
- One Ethernet RJ-45
- One serial 9-pin 16550 compatible (select models may have a second serial port)
- One parallel 25-pin parallel (EPP, ECP), IEEE 1284
- VGA monitor port
- Audio line in, headphone out, and microphone in jacks
- No PS/2 mouse or keyboard connector

Slots

- Slot 1: Full length, full height PCI Express x16 (graphics only)
- Slot 2: Full length, full height PCI Express x1
- Slot 2: Full length, full height 32-bit PCI 2.3 (5v)
- Slot 3: Full length, full height 32-bit PCI 2.3 (5v)

Power

Power management

- ACPI 2.3

Power supply

- 310 watt supply with variable fan speed (lower models)
- 110 volt or 220 volt operation controlled by a switch on the back of the unit

Security

- Security chip
- One lock to secure both cover and entire system to fixed object:
 - Padlock loop (in rear for optional padlock), tower only
 - Security slot (in rear for optional cable)
 - No keylock
- Power-on password
- Configuration password (administrator password)
- Hard drive password (user and master)
- Boot sequence control
- Boot without keyboard, mouse, or diskette
- USB/Ethernet/serial/parallel/SATA/EIDE/diskette enable or disable
- Disk, removable device, and network device password
- Diskette write protect
- Front USB port disablement
- Cover intrusion switch (select models)

Security chip features:

- 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

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

Note: Preloaded software utilizes the [disk-to-disk recovery](#) method. Select models ship without the Operating system.

Storage

Optical drive

- 48x CD-ROM
- 16x DVD-ROM
- 48x32x48x16x CD-RW/DVD combo drive
- Multi-burner Plus 16x

Hard drive features

- 7200RPM Serial ATA supported

Video**Intel Graphics Media Accelerator 3000**

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

For models without a separate video card, memory supports both system and video. System memory used by video may be up to 32MB if the system has 128MB installed, up to 160MB if the system has 256MB installed, and up to 256MB if the system has 512MB or more system memory installed, depending on video mode.

Resolution, maximum color depth, and refresh rates

- 640 x 480, 16M colors (120 Hz)
- 800 x 600, 16M colors (120 Hz)
- 1024 x 768, 16M colors (120 Hz)
- 1152 x 864, 16M colors (100 Hz)
- 1280 x 1024, 16M colors (120 Hz)
- 1600 x 1200, 16M colors (120 Hz)
- 1920 x 1080, 16M colors (100 Hz)
- 1920 x 1200, 16M colors (75 Hz)
- 1920 x 1440, 16M colors (85 Hz)

ATI Radeon X300SE

- Native 16 lane PCI Express
- Four extreme parallel 3D rendering pixel pipelines
- Full DirectX 9 support
- Smartshader™ 2.0 defines the level of realism in latest 2D/3D games and applications
- Smoothvision™ 2.1 improves image quality by smoothing jagged edges, improving blurriness and refining background details during on-screen motion and at lower resolutions.
- Hyper Z™ III ensures optimal hardware performance by discarding irrelevant object data that is not visible to the end-user on their display
- Videoshader™ Seamless integration of pixel shaders with video in real time
- Dual integrated display controllers
- Dual integrated 10 bit per channel 400MHz DACs
- Integrated TV Output support for up to 1024x768 resolution

Resolution, maximum color depth, and refresh rates

- 640 x 480, 16M colors (200 Hz)
- 800 x 600, 16M colors (200 Hz)
- 1024 x 768, 16M colors (200 Hz)
- 1152 x 864, 16M colors (200 Hz)
- 1280 x 1024, 16M colors (160 Hz)
- 1600 x 1200, 16M colors (120 Hz)
- 1920 x 1080, 16M colors (120 Hz)
- 1920 x 1200, 16M colors (100 Hz)
- 1920 x 1440, 16M colors (90 Hz)
- 2048 x 1536, 16M colors (85 Hz)

ATI Radeon X1600

- Avivo Video and Display engine
- 256MB DDR2 SDRAM memory
- 128-bit bus width
- Native 16 lane PCI Express
- 15-pin VGA output
- S-Video output
- DVI-I output
- Four extreme parallel 3D rendering pixel pipelines
- Full DirectX 9 support
- Shader model 3.0
- 4:1 compression for normal maps and luminance maps
- Supports dual monitors

Resolution, maximum color depth, and refresh rates

- 640 x 480, 16M colors (200 Hz)
- 800 x 600, 16M colors (200 Hz)
- 1024 x 768, 16M colors (200 Hz)
- 1280 x 1024, 16M colors (180 Hz)
- 1600 x 1200, 16M colors (120 Hz)
- 1920 x 1200, 16M colors (100 Hz)
- 1920 x 1440, 16M colors (90 Hz)
- 2048 x 1536, 16M colors (85 Hz)

Country Availability

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