# IBM ThinkPad® 240X - withdrawn

## IBM® ThinkPad®

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|---|---|
| Processor | **Intel® Mobile Celeron™ 450MHz[1] or Intel Mobile Pentium® III 500MHz / 100MHz system bus** |
| L2 cache | *Celeron:* **128KB** / onboard (at processor speed);   *Pentium III:* **256KB** / onboard (at processor speed) |
| Diskette drive | External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable |
| CD-ROM | *Option:* External via USB port or via Portable Drive Bay 2000 and 24X-10X[5] CD-ROM Ultrabay 2000 Drive |
| LS-120 and CD-RW | *Option:* External via Portable Drive Bay 2000 and drive option / no support for DVD in the Portable Drive Bay |

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| Type-model | **2609-51U** | **2609-52U** | **2609-61U** | **2609-62U** |
| Processor | **Celeron 450MHz** | **Celeron 450MHz** | **Pentium III 500MHz** | **Pentium III 500MHz** |
| Disk - size / ms | **6.0GB**[4] / 13ms read / Ultra DMA/33 or PIO Mode 4 | | **12.0GB** / 12ms read / ATA-66 or PIO4 | |
| Preload (see side) | **Windows 98**[7] **SE** | **Windows 2000** | **Windows 98**[7] **SE** | **Windows 2000** |
| Available date | June 2000 | June 2000 | June 2000 | June 2000 |

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| Display - size and type | **10.4" TFT color** (264.16mm) **/ Active Matrix** |
| Display - technology | **SVGA** / 800x600 / 15ms refresh (typical) / 50 to 110 nits |
| | 16.7 million simultaneous colors / 150 to 1 contrast (typical) |

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| Graphics - controller | **Silicon Motion® Lynx EM+ SM712G™** / DDC2B / |
| | **2MB** / SGRAM (embedded) / color space conversion / multiple monitor support[26] for Windows 98 |
| Graphics - features | Simultaneous LCD and CRT[26] / 180 degree tilt / external SVGA to 1024x768 with 65,536 colors |

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| Memory - std / max | **64MB** / 192MB[33] |
| Memory - features | SDRAM / non-parity / **100MHz** / 3.3 volt / 64-bit |
| | 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to |
| | motherboard / socket accessed by removing three screws and keyboard |

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|---|---|
| Disk controller / disk | EIDE / PCI 2.1 / supports one internal disk / customer can remove |
| | disk for upgrade (by removing three screws on base) |
| Keyboard | Keyboard palm rest / 95% size of current standard ThinkPad keyboards / |
| | 18mm key pitch |

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| Pointing | TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / |
| | sensitivity / spare caps |

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| Dimensions | 10.2 x 8.0  x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm |
| Weight[2] | *51U/52U:* approximately 2.98 lbs (1.35 kg) with battery and disk |
| | *61U/62U:* approximately 3.28 lbs (1.49 kg) with battery and disk |
| Case material | IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; |
| | Bottom: glass-fiber reinforced plastic |

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| Battery - type | *51U/52U:* Li-Ion (3 cell);  *61U/62U:* Li-Ion (6 cell);  *All:* intelligent / left side |
| Battery - life[10] | *51U/52U:* 2.1 hrs    *61U/62U:* 4.2 hrs |
| | *51U/52U:* Optional 6 cell battery for 4.2 hrs |
| Charge time[10] | 3.5 hrs on / 3.0 hrs off |

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| Architecture | **Intel 440MX PCIset (82443MX)** / combines Host Bridge and PIIX4 in single |
| | chip / TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) / |
| | PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) |
| | ISA (diskette, serial, parallel, infrared) |
| Docking station | None |
| Port replicator | None (all standard ports already on back of system) |
| PC Card Std slots | 1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support |
| USB / serial / parallel | One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) |
| Other features | 72 watt AC adapter |

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| Video (TV) out | None |
| Data/fax modem | **56K**[37] V.90 / Mini PCI Type IIIb / Lucent 1646 |
| Audio | 16-bit SoundBlaster Pro™ support / CS4281 PCI audio / CS4297A |
| | AC97 codec |
| Speaker | One internal speaker (.5 watt) |
| Audio features | Internal microphone / Fn+Insert and Fn+Delete volume control with mute |
| Audio in/out jacks | Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo) |
| Infrared ports | Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps |

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| Security | Power-on password / setup password / disk password / security keyhole |

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| Limited warranty[11] | **1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service) |
| Service options[15] | Service upgrades available based on specific ThinkPad purchased |

### WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Edition
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- Access ThinkPad
- IBM Update Connector
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Manageability Services (web)
✧Software Selections CD
✧Lotus® SmartSuite® Millennium CD
✧Recovery CD-ROM (Windows 98)
✧Recovery CD-ROM (Windows 95)[7]

### WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- ConfigSafe
- Norton AntiVirus™ (OEM Version)
- IBM Update Connector
- Universal Manageability Services (web)
✧Software Selections CD
✧Lotus® SmartSuite® Millennium CD
✧Recovery CD-ROM (Windows 2000)
✧Recovery CD-ROM (Windows NT)[40]

### Color depth

| Resolution | LCD TFT | External Monitor 60Hz | 70Hz | 75Hz | 85Hz |
|---|---|---|---|---|---|
| 640x480 | 16M | 16M | -- | 16M | 16M |
| 800x600 | 16M | 16M | -- | 16M | 16M |
| 1024x768* | 64K | 64K | 64K | 64K | -- |
| 1280x1024 | -- | -- | -- | -- | -- |

* Virtual screen mode on 10.4" LCD

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Pressing F1 during startup brings up IBM BIOS Setup Utility

Disks are S.M.A.R.T.[29] compliant

- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

### OPTIONS

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| - 32MB SO DIMM 100MHz NP SDRAM | 20L0253 |
| - 64MB SO DIMM 100MHz NP SDRAM | 20L0254 |
| - 128M SO DIMM 100MHz NP SDRAM | 20L0255 |
| - 12GB disk, 12ms read, ATA-66 | 05K9245 |
| - High capacity 6-cell Li-Ion Battery | 02K6580 |
| - Ultraslim 72 watt AC Adapter | 02K6699 |
| - DC Auto Adapter | 02K3381 |
| - V.90 56K Intern Modem with GSM | 02K4280 |
| - 10/100 EtherJet™ CardBus Adapter | 34L5301 |
| - IBM 16/4 Token-Ring CardBus Adap | 34L4801 |
| - Smart Card Security Kit | 33L5075 |
| - IBM Portable Drive Bay 2000 | 19K4480 |
| - IBM MultiPort USB Hub | 00N8215 |
| - IBM 340MB microdrive | 00N8073 |
| - IBM USB Portable CD-ROM Drive | 33L5151 |
| - IBM USB Mobile Mouse | 33L3243 |
| - IBM USB Numeric Keypad | 33L3225 |

### FEATURES

Toll-free hardware support during the warranty period
Personalized web-based support
Wired for Management 1.1a compliant
DMI 2.0-compliant
PC 99-compliant
ACPI ready (APM enabled)
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Reset switch on bottom
Plug and Play 1.0a
Standby, suspend, redisafe, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, fax, electronic, and Internet (www.ibm.com/pc/us) support