

# IBM ThinkPad® 770X - withdrawn

| IBM® ThinkPad®:  | 770X   | 770X     | 770X                                 | 770X     | 770X (AAP)                 | WINDOWS 98 PRELOAD <sup>16</sup>  |
|--|--|----------|--------------------------------------|----------|----------------------------|---|
| Processor  | Intel® Mobile Pentium® II 300MHz <sup>1</sup> / 66MHz system bus   |          |                                      |          |                            | <ul style="list-style-type: none"><li>- Microsoft® Windows® 98</li><li>• Online User's Guide</li><li>• ThinkPad Configuration Program</li><li>• ThinkPad Utilities</li><li>• IBM Registration</li><li>• Puma IntelliSync 97</li><li>• Norton AntiVirus</li><li>• Mediamatics DVD Express</li><li>• Artisoft ConfigSafe</li><li>• IBM Global Network Dialer</li><li>• Netscape Navigator web browser</li><li>• ThinkPad on the Net</li><li>• Ring Central</li><li>• Intel Video Phone</li><li>• Ergonomics</li><li>• Update Connector</li><li>◇ Recovery CD-ROM (with boot diskette)</li><li>◇ Customization CD-ROM (apps/drivers)</li></ul> |
| Processor features   | No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module   |          |                                      |          |                            |   |
| L2 cache   | 512KB / write-back / 4 way set associative/ sync pipelined burst / ECC / 150MHz  |          |                                      |          |                            |   |
| Diskette (removable)   | 3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally  |          |                                      |          |                            |   |
| External FDD port  | External diskette port (use std cable to attach diskette drive externally)   |          |                                      |          |                            |   |
| CD-ROM (removable)   | Std or option: <b>CD-ROM</b> / 24X-10X <sup>5</sup> speed / bootable / hot swap/ use in UltraBay II  |          |                                      |          |                            |   |
| DVD-ROM (removable)  | Std or option: <b>2X<sup>5</sup> DVD drive</b> / 16X-8X <sup>5</sup> speed / CAV / use in UltraBay II  |          |                                      |          |                            |   |
| Type - model   | 9549-71U   | 9549-72U | 9549-7AU                             | 9549-7BU | 9549-73U(AAP)              |   |
| Preload (see side)   | Windows 98   | NT 4.0   | Windows 98                           | NT 4.0   | Blank (no disk)            |   |
| DVD or CD-ROM  | DVD-ROM  | CD-ROM   | DVD-ROM                              | CD-ROM   | Optional                   |   |
| Display (diagonal)   | 14.1" TFT XGA (1024x768)   |          |                                      |          |                            |   |
| Disk (removable)   | 8.1GB <sup>4</sup> / 12ms read / 13ms write  |          |                                      |          |                            |   |
| Avail / withdr date  | October 1998 / June 1999   |          |                                      |          |                            |   |
| Memory - std / max   | 64MB / 320MB <sup>21</sup>   |          | 128MB / 320MB <sup>21</sup>          |          | 64MB / 320MB <sup>21</sup> |   |
| Available sockets  | 2 available sockets  |          | 1 socket (one used by 64MB)          |          | 2 available                |   |
| Memory - features  | SDRAM / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs  |          |                                      |          |                            |   |
| Display - size   | 14.1" (358mm) color / 1024x768   |          | 13.7" (348mm) SXGA color / 1280x1024 |          |                            |   |
| Display - colors   | 16.7 million simultaneous colors   |          | 65,536 simultaneous colors           |          |                            |   |
| Display - technology   | Active Matrix TFT / 180 degree tilt  |          |                                      |          |                            |   |
| Graphics - controller  | Trident™ CYBER9397DVD / Accelerated Graphics Port / 64-bit accelerator   |          |                                      |          |                            |   |
| Graphics - arch  | 4MB SGRAM / 83MHz  |          | 8MB SGRAM / 83MHz                    |          | 4MB SGRAM                  |   |
| Graphics - features  | 3D hardware accelerator / AGP-1x / sideband / motion compensation / Direct3D   |          |                                      |          |                            |   |
| Graphics - external  | External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support <sup>26</sup>   |          |                                      |          |                            |   |
| Disk (swappable)   | Left side / removable via 3 methods: latch, coin screw, security tool / SMART  |          |                                      |          |                            |   |
| Disk controller  | Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4  |          |                                      |          |                            |   |
| Keyboard / Fn keys   | Full size alp/num keys / 7 Fn key functions / integrated palm rest   |          |                                      |          |                            |   |
| Keyboard slope   | Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)  |          |                                      |          |                            |   |
| Pointing device  | TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps   |          |                                      |          |                            |   |
| Dimensions / weight <sup>2</sup>                                 | 12.3 x 10 x 2.2" (270 cubic in) / 14.1" mod: 7.57 lbs (3.43 kg) with battery/diskette<br>13.7" mod: 7.63 lbs (3.46 kg) with battery/diskette   |          |                                      |          |                            |   |
| Battery - type   | Lithium Ion / intelligent / left side  |          |                                      |          |                            |   |
| Battery - life <sup>10</sup> (1 batt)                            | 3.5 hrs (7 hrs with second battery in UltraBay II)   |          |                                      |          |                            |   |
| Charge time - on / off   | 2 to 3 hrs / 1.5 to 2.5 hrs  |          |                                      |          |                            |   |
| Architecture   | Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer<br>PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)<br>PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)  |          |                                      |          |                            |   |
| Port replicator  | SelectaBase 770 / PC Card Enabler <sup>18</sup> / PC Card Enabler with Adv EtherJet <sup>18</sup>  |          |                                      |          |                            |   |
| Docking Station  | SelectaDock III / SelectaDock I and II   |          |                                      |          |                            |   |
| PC Card Std slots  | 2 Type 1, 2 Type II, or 1 Type III / CardBus / PCMCIA 2.1 / Zoomed Video   |          |                                      |          |                            |   |
| USB / serial / parallel  | One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)   |          |                                      |          |                            |   |
| Other features   | APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot   |          |                                      |          |                            |   |
| Video in/out   | Option on DEVA: Video in/out (composite and S-Video) / SAA7111A NTSC/PAL   |          |                                      |          |                            |   |
| MPEG   | Software support for MPEG-2 <sup>27</sup> because 300MHz with motion compensation  |          |                                      |          |                            |   |
| Data/fax modem   | 56Kbps (x2, upgradeable to v.90 <sup>8</sup> ) / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA  |          |                                      |          |                            |   |
| Audio support  | CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record<br>CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX<br>Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone  |          |                                      |          |                            |   |
| Jacks  | Input jack (3.5 mm) / output jack (3.5 mm) / full duplex   |          |                                      |          |                            |   |
| Infrared ports   | Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps  |          |                                      |          |                            |   |
| Security   | Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays  |          |                                      |          |                            |   |
| Limited warranty <sup>11</sup>                                   | 3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround  |          |                                      |          |                            |   |
| Service options <sup>15</sup>                                    | On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date   |          |                                      |          |                            |   |
| Optional DVD and Enhanced Video Adapter (DEVA) 10L1228 provides: | <ul style="list-style-type: none"><li>- MPEG-1, MPEG-2 HHR, and full MPEG-2<sup>27</sup> hardware decoder (audio decoded via software); IBM MPEGCD1M / 2MB SDRAM; 100MHz</li><li>- DVD movie playback<sup>27</sup> (MPEG-2 decoding; decryption and audio decoding via software)</li><li>- Video in (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay</li><li>- Video out (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad</li><li>- Dolby® Digital AC-3<sup>3</sup> (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier</li><li>- Three ports - ① video in, ② video out, ③ AC-3</li></ul>  |          |                                      |          |                            |   |
|  | <ul style="list-style-type: none"><li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li><li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li><li>- 14.1GB disk, 12ms, Ultra DMA/33 02K0526</li><li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li><li>- SelectaBase 770 83H6735</li><li>- SelectaDock III<sup>18</sup> 3547003</li><li>- PC Card Enabler with EtherJet™<sup>18</sup> 05K4820</li><li>- 760 UltraBay Tray for SD III 11J8839</li><li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li><li>- 24X-10X CD-ROM Drive (UltraBay II) 02K0516</li><li>- 2X DVD Drive (UltraBay II) 05K8886</li><li>- DVD and Enh Video Adapter (DEVA) 10L1228</li><li>- 32MB SO DIMM 3.3v NP SDRAM 76H0294</li><li>- 64MB SO DIMM 3.3v NP SDRAM 20L0241</li><li>- 128MB SO DIMM 3.3v NP SDRAM 01K1150</li><li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li><li>- ThinkPad 770 Li-Ion Battery 83H6738</li><li>- External Battery Charger 11J8985</li></ul> |          |                                      |          |                            |   |
|  | <b>PC 97 compliant</b><br><b>DMI 2.0 compliant</b><br>DMI instrumentation (thermal monitoring)<br><b>ACPI ready</b> (APM enabled)<br><b>Wired for Management 1.1a compliant</b><br><b>Wake on LAN® support<sup>28</sup></b><br>Setup Guide, User's Guide, Windows 98 or NT manual<br><b>LCD indicator panel</b><br>Plug and Play 1.0a<br>Non-disruptive battery exchange<br>Standby, suspend, safe suspend, and hibernation modes<br>ENERGY STAR compliant<br>International Warranty Service <sup>14</sup><br><b>IBM SystemXtra®<sup>35</sup></b><br>24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support   |          |                                      |          |                            |   |

All trademarks are the property of their respective owners

No warranties are expressed or implied in this summary (770X) © IBM Corp. July 1999