

20U
39050U
39090U/C0U/E0U/ENU
390E

390X

The purpose of this spreadsheet is to provide a guide to the compatibility within and between the ThinkPad 380 390 560 and 570 families.

The spreadsheet contains information that can be used to highlight the compatibilities and differences between ThinkPad models when doing transition planning and/or to build an initial software image.

This package is NOT intended to be a list of the latest levels of the software drivers needed to build an image. Although it is current as it is being created, it will become out of date over time.

For the current list of the levels of the latest software drivers, see the support page on the IBM ThinkPad web site at: <http://www.pc.ibm.com/support>

Supported OS Version

PC-DOS 7.0	Yes	<-----	<-----	<-----
MS-DOS 6.22	Yes	<-----	<-----	<-----
Windows 3.11	Yes	<-----	<-----	<-----
Windows for WG 3.11	Yes	<-----	<-----	<-----
Windows 95 (OSR1 - Win95 Retail + Service Pack 1)			YES	<-----
Windows 95 (OSR2/2.1 - adds USB and new IE browser)				<-----
Windows 95	Yes	<-----	<-----	<-----
Windows 98	Yes	<-----	<-----	<-----
Windows NT Workstation 3.51	No	<-----	<-----	<-----
Windows NT Workstation 4.0 Service Pack 3	Yes	<-----	Service Pack 4	Service Pack 5
Windows NT Workstation 4.0 Service Pack 4				
OS/2 Warp 4.0	Yes	<-----	<-----	<-----

System Utility (ThinkPad Features / Configuration)

Personalization Editor				
Personalization Data Update Disk				
Utility Diskette for DOS	Version 1.00	Version 1.00	Version 0.96	Version 0.96
Utility for DOS				
Utility for Win3.1				
Utility Diskette for Win95				
Utility Diskette for Win3.1/Win95				
Utility Diskette for Win95/98	Version 1.01	Version 1.01	Version 0.98	Version 0.98
Utility for Win95/98				
Utility Driver Disk for Win95				
Utility Driver II for Win95				
Win95 Supplement File Disk	Version 1.1	Version 1.1	Version 1.4	Version 2.3
Win95 Supplement File Disk II				
Win95 Supplement File III				
Win98 Supplement File II				
Win 95 Update Module				
Win 98 Update Module				
Utility Diskette for Win98 Disk I				
Utility Diskette for Win98 Disk II				
Utility Diskette for OS/2 Warp				
Utility for WinNT				
Utility Data Diskette I				
Utility Data Diskette II				
Utility Data III				
Utility Data Diskette I for Win 98				
Utility Data Diskette II for Win 95				
Utility Data Diskette II for Win 98				
Utility Data Diskette III for Win 98				
Utility Data III for Win 95/98				
IDE Driver				
OS/2 Warp Install Diskette I				
OS/2 Warp Install Diskette II				
APM Support Disk for Win NT 4.0	Version 1.00	Version 1.00	Version 1.00	Version 1.01
Hibernation Utility for Stalone boot				
Hibernation Utility for Win95/98/NT				
PC-Doctor DOS				Version 2.0.651a
PC Doctor Startup Disk				
PC Doctor for DOS Disk II				
PC Doctor for DOS Disk III				

System Board

Intel MMO	Yes	<-----	<-----	<-----
System Bus	PCI	<-----	<-----	<-----
HDD Interface	Enhanced IDE	<-----	<-----	<-----
I/O Port				
Serial	16550 Compatible	<-----	<-----	<-----
Parallel	ECP/EPP	<-----	<-----	<-----
USB Controller	PIIX4E	<-----	<-----	<-----
Hibernation Utility	Version 1.00 *24	Version 1.00 *24	Version 4.03 *24	<-----
BIOS	AT Compatible	<-----	<-----	<-----
System BIOS Updates	No Update	<-----	<-----	<-----
Model/Sub-model	FC/01	<-----	<-----	<-----
Memory Map				
F000-FFFF	(F0000h-FFFFFh) System BIOS	<-----	<-----	
E000-EFFF	(EB000h-BFFFFh) System BIOS			
D000-DFFF				
C7FF-CFFF		<-----	<-----	
C000-C7FF	(C0000h-CBFFFh) Video BIOS	<-----	<-----	
A000-BFFF	(A0000h-BFFFFh) VRAM	A0000h-BFFFFh VRAM	A0000h-BFFFFh VRAM	A0000h-BFFFFh VRAM

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Memory				
Data Path	64bit	<-----	<-----	<-----
Voltage	3.3V	<-----	<-----	<-----
Technology	SDRAM	<-----	<-----	<-----
Battery				
Type	NiMH	NiMH/Li-Ion	NiMH (C0U/90U) / Li-Ion (E0U/ENU/D0U)	NiMH (Fxx)/ Li-Ion(Except Fxx)
Battery Installation Check Utility				
LCD				
	12.1" TFT 800x600	12.1" TFT 800x600	12.1" TFT 800x600 13.3" TFT 1024x768	12.1" TFT 800x600 14.1" TFT 1024x768
		14.1" TFT 1024x768	14.1" TFT 1024x768	15.0" TFT 1024x768
Graphics				
Chipset	NM2200	<-----	<-----	<-----
SDRAM/VRAM/ or DRAM	2.5MB SDRAM	<-----	<-----	<-----
Graphics Data Path	256 bit	<-----	<-----	<-----
Video BIOS				
LCD Display Modes (See below for VESA display modes.)				
VGA				
	Vesa101	60Hz	<-----	<-----
	Vesa111	60Hz	<-----	<-----
*1	Vesa112	60Hz	<-----	<-----
	Vesa102	60Hz	<-----	<-----
	Vesa103	60Hz	<-----	<-----
	Vesa114	60Hz	<-----	<-----
*1	Vesa115	60Hz	<-----	<-----
	Vesa104	No	60Hz	60Hz
	Vesa105	No	60Hz	60Hz
	Vesa117	No	60Hz	60Hz
	Vesa106	No	<-----	<-----
	Vesa107	No	<-----	<-----
CRT Display Modes (See below for VESA display modes.)				
VGA				
	Vesa101	60/75/85Hz	<-----	<-----
	Vesa111	60/75/85Hz	<-----	<-----
*1	Vesa112	60/75/85Hz	<-----	<-----
	Vesa102	60/75/85Hz	<-----	<-----
	Vesa103	60/75/85Hz	<-----	<-----
	Vesa114	60/75/85Hz	<-----	<-----
*1	Vesa115	60/75/85Hz	<-----	<-----
	Vesa104	60/75/85Hz	<-----	<-----
	Vesa105	60/75/85Hz	<-----	<-----
	Vesa117	60/75/85Hz	<-----	<-----
	Vesa106	60/75/85Hz	<-----	<-----
	Vesa107	60Hz	<-----	<-----
*1	Win 3.11 Video Features	Version 1.11	Version 1.11	Version 1.16 Version 1.20
*1	Win 95 Video Features			
	Win 95/98 Video Features	Version 1.20T	Version 1.20T	Version 2.02.05Q Version 2.08.02Q
*1	OS/2 Warp 4.0 Video Features	Version 4.14	Version 4.14	Version 4.24 Version 4.27
*1	WinNT3.51 Video Features			
*1	WinNT4.0 Video Features	Version 4.08	Version 4.08	Version 4.20Q Version 4.27.08Q
LCD				
	640x480 256/64K/16M	<-----	<-----	<-----
	800x600 256/64K/16M	<-----	<-----	<-----
		1024x768 256/64K (*70U only)	1024x768 256/64K (*E0U/ENU/D0U/C0U)	1024x768 256/64K (*Except Fxx)
CRT				
	640x480 256/64K/16M	<-----	<-----	<-----
	800x600 256/64K/16M	<-----	<-----	<-----
	1024x768 256/64K	<-----	<-----	<-----
	1280x1024/256	<-----	<-----	<-----
PCMCIA				
IBM PC Card Director utility				
	DOS/Win			
	Win95			
	OS/2	Version 4.10	<-----	<----- Version 4.12
	WinNT *13			
SystemSoft				
	CardSoft for DOS	Version 5.32E	<-----	<----- Version 5.32.18K3
	CardWizard for Win3.1	Version 5.30.09H	<-----	<----- Version 5.03.09K5

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CardWorks for Win95 I	Version 5.50.06S	<-----	Version 5.50.06T1	
CardWorks for Win95 II	Version 5.50.06S	<-----	Version 5.50.06T1	
CardWorks for Win95 III	Version 5.50.06S	<-----	Version 5.50.06T1	
CardWizard for WinNT	Version 4.00.09a3	<-----	Version 4.10.13A1	Version 4.10.13A
Slot	Yes	<-----	<-----	<-----
CardBus	Yes	<-----	<-----	<-----
ZV Port Enabled	Yes	<-----	<-----	<-----
Audio				
Driver				
DOS/Win3.11				
Win95				
Win95/Win98				
Warp				
WinNT				
Voyetra AudioStation Disk for Win31				
Audio Features II for Win95/98				
Audio Features II for WinNT				
Audio Features Disk				
DOS				Version 1.0
Win 3.1, Disk 1 & Disk 2	Version 3.35	Version 3.35	Version 4.17.23	Version 4.17.26
OS/2	Version 1.02	Version 1.02	Version 4.17.23	Version 1.17.0
Win95/98, Disk 1 & Disk 2	Version 1.40	Version 1.40	Version 1.14.0	Version 4.05.00.1113
Win NT 4.0	Version 1.26	Version 1.26	Version 4.05.15	Version 4.05.19
MIDI				
I/F				
Driver				
DOS/Win				
Win95				
Warp				
WinNT				
Wave Table Audio				
DOS/Win				
Win95				
Warp				
WinNT				
Integrated Modem				
	56K	56K	56K	<-----
Drivers *6				
DOS/Win3.11	Version 5.15	Version 5.15		
DOS			Version 5.30	Version 5.41
Win 3.11			Version 5.36	Version 5.41
Win95				
Win95 / 98	Version 5.19	Version 5.19		
Win95 / 98 / NT			Version 5.37	Version 5.30
Warp	Version 5.15B	<-----	Version 5.38	Version 5.41
WinNT	Version 5.19	Version 5.19		
Speed	56K	<-----	<-----	<-----
VOD				
Modem Ring Disk				
Win95/98	Version 1.426	Version 1.426	Version 2.2	Version 2.32
Modem Country Select Disk for Win95	IJM502US	IJM502US	ILS301US	ISS301US
IR				
Win3.11/95/Warp Driver	N/A	<-----	<-----	<-----
HP Mode (115Kbps)				
Sharp Mode (9600)				
IBM Mode (1.15Mbps)				
4Mbps				
WinNT	N/A	<-----	<-----	<-----
Infrared Features Disk II	N/A	<-----	<-----	<-----
HDD				
Warm Swap Driver				
Win95/98	Version 3.10.05B	Version 3.10.05B	Version 3.10.07B	
Swap Master driver				
Win95/Win98				Version 1.02
CD-ROM				
Driver				
DOS/Win	Version 3.12	<-----	<-----	<-----
Win95	Version 3.12	<-----	<-----	<-----
Warp	Version 3.12	<-----	<-----	<-----
WinNT	Version 3.12	<-----	<-----	<-----
Speed				
MPEG 2 Support				
	N/A	<-----	<-----	<-----

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Features					
DOS		N/A	<-----	<-----	<-----
Win3.11		N/A	<-----	<-----	<-----
Microsoft Win32s Setup					
Win95		N/A	<-----	<-----	<-----
Warp		N/A	<-----	<-----	<-----
WinNT		N/A	<-----	<-----	<-----
MMPM/2 MPEG Update for OS/2					
Video CD Player					
DOS		N/A	<-----	<-----	<-----
Win3.11		N/A	<-----	<-----	<-----
Win95		N/A	<-----	<-----	<-----
Warp		N/A	<-----	<-----	<-----
WinNT		N/A	<-----	<-----	<-----
Video Capture Driver					
Win95		N/A	<-----	<-----	<-----
Win98		N/A	<-----	<-----	<-----
WinNT 4.0		N/A	<-----	<-----	<-----
DVD Player					
DOS		N/A	<-----	<-----	<-----
Win3.11		N/A	<-----	<-----	<-----
Win95		N/A	<-----	<-----	<-----
Warp		N/A	<-----	<-----	<-----
WinNT		N/A	<-----	<-----	<-----
DVD-Video Player Upgrade for Win95/98					
DVD Movie for Win95	N/A	<-----	<-----	<-----	<-----
DVD Movie Region for Win95	N/A	<-----	<-----	<-----	<-----
MPEG-1 (Hardware assisted)	N/A	<-----	<-----	<-----	<-----
MPEG-2 HHR NTSC	N/A	<-----	<-----	<-----	<-----
MPEG-2 HHR PAL	N/A	<-----	<-----	<-----	<-----
MPEG-2 (Full)	N/A	<-----	<-----	<-----	<-----

Enhanced Video

Driver		N/A	<-----	<-----	<-----
DOS		N/A	<-----	<-----	<-----
Win3.11		N/A	<-----	<-----	<-----
Win95		N/A	<-----	<-----	<-----
Warp		N/A	<-----	<-----	<-----
WinNT		N/A	<-----	<-----	<-----
Overlay		N/A	<-----	<-----	<-----
Acceleration		N/A	<-----	<-----	<-----
TV Out (NTSC/PAL)		N/A	<-----	<-----	<-----

TrackPoint

Driver					
Win95/WinNT					
Warp	Version 1.02	Version 1.02	<-----	<-----	
Win98/ Win95/ WinNT	Version 1.09	Version 1.09	Version 1.11.00	Version 1.14.00	

Systems Mgmt

LANDesk Client Manager Driver		N/A	<-----	<-----	<-----
Disk II for OS/2		N/A	<-----	<-----	<-----
Win95		N/A	<-----	<-----	<-----
WinNT		N/A	<-----	<-----	<-----
Disk II for Win95/98/NT		N/A	<-----	<-----	<-----

Notes:

- *1 Applications will recognize video mode as 16M color modes. However, 256K color will show on the panel due to TFT LCD panel design.
- *2 1280x1024 16 with WinNT
- *3 IBM PC Card Director utility not included on 760XD/XL preload for Win95 or WinNT
- *4 Bottom slot only
- *5 No driver available. Requires native MIDI support from the O/S.
- *6 National Language versions available outside US
- *7 DOS/Win3.1 and Win/OS2 only. Native Win95 driver.
- *8 WinNT 4.0 only
- *9 Thick models only are CD capable
- *10 Optional for non-CDROM models
- *11 Optional external CD-ROM drive with vendor-provided driver
- *12 WinNT 3.51 only. CDROM support comes with WinNT 4.0.
- *13 WinNT provides native support. WinNT 4.0 PC Card Director Version 1.00 available for download from the Internet.
- *14 Cardbus enabled under Windows 95
- *15 Optional
- *16 Requires DVD drive
- *17 Available with 4MB VRAM
- *18 Not available with 3D Graphics
- *19 16M not available with 3D Graphics
- *20 UltraPortable Utility Diskette
- *21 Video Features Diskette I for OS/2
- *22 Modem is available on 21U, 41U, 51U, A1U, 45U, 55U, 85U. Not available on 31U
- *23 Available only on 13.0" HPA, and 13.3" TFT
- *24 Hibernation Utility is not uploaded to web site due to liscencing issues
- *25 DVD-Video Player for Win95/98 is not uploaded to web site due to liscencing issues

Reference Information:

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VESA Display Modes

Mode	Resolution	Colors
101	640x480	256
111	640x480	64K
112	640x480	16M
102	800x600	16
103	800x600	256
114	800x600	64K
115	800x600	16M
104	1024x768	16
105	1024x768	256
117	1024x768	64K
106	1280x1024	16
107	1280x1024	64K

Notes

This spreadsheet should be used as a reference tool only.

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