

The purpose of this spreadsheet is to provide a guide to the compatibility within and between the ThinkPad 240 models. 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 Although it is current as it is being created, it will become out of date over time.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:

	240 21U	240 31U	240 41U	240X 51U, 61U
<b>Supported OS Version</b>				
PC-DOS 7.0	Minimum Support	Minimum Support	Minimum Support	Minimum Support
PC DOS 2000	Minimum Support	Minimum Support	Minimum Support	Minimum Support
MS-DOS 6.22	Minimum Support	Minimum Support	Minimum Support	Minimum Support
Windows 3.11	No	No	No	No
Windows for WG 3.11	No	No	No	No
Windows 95 (OSR1 - Win95 Retail + Service Pack 1)	Yes	Yes	Yes	Yes
Windows 95 (OSR2/2.1 - adds USB and new IE browser)	Yes	Yes	Yes	Yes
Windows 98	Yes	Yes	Yes	Yes
Windows 98 ME	No	No	No	No
Windows NT Workstation 3.51	No	No	No	No
Windows NT Workstation 4.0 Service Pack 3	No	No	No	No
Windows NT Workstation 4.0 Service Pack 4	Yes	Yes	Yes	No
Windows NT Workstation 4.0 Service Pack 5	Yes	Yes	Yes	No
Windows NT Workstation 4.0 Service Pack 6a	No	No	No	Yes
WIndows 2000 Professional	Yes	Yes	Yes	Yes
OS/2 Warp 4.0	No	No	No	No
<b>System Utility (ThinkPad Features / Configuration)</b>				
Utility Diskette for DOS,Personalization	N/A	N/A	IRU202US Ver 1.01	KSU204US Ver 1.03
Utility Diskette for Win3.1				
Utility Diskette for Win95				
Utility Diskette for Win95/98	IRU108US ver 2.07	IRU503US ver 3.02.00	IRU506US ver 3.05	KSU517US Ver 3.16
Utility Driver Disk for Win95				
Win95 Supplement File Disk II				
Win98 Supplement File Disk II	IRO105US ver 1.00	IRO105US ver 1.00	IRO105US ver 1.00	IRO110US ver 1.03
Utility Diskette for Win98 Disk I				
Utility Diskette for Win98 Disk II				
Utility Diskette for OS/2 Warp				
Utility Diskette for WinNT				
Utility Data Diskette I				
Utility Data Diskette II				
Utility Data Diskette II				
Utility Data Diskette I for Win95/98				
Utility Data Diskette I for Win 98				
Utility Data Diskette II for Win 98				
Utility Data Diskette III for Win 98				
IDE Driver Diskette				
OS/2 Warp Install Diskette I				
OS/2 Warp Install Diskette II				
Personalization Data Update Disk				
<b>System Board</b>				
Intel MMO	No (BGA)	No (BGA)	No (BGA)	No (BGA)
System Bus	PCI	PCI	PCI	PCI
HDD Interface	Enhanced IDE	Enhanced IDE	Enhanced IDE	Enhanced IDE
I/O Port				
Serial	16550 Compatible	16550 Compatible	16550 Compatible	16550 Compatible
Parallel	ECP/EPP	ECP/EPP	ECP/EPP	ECP/EPP
USB Controller	Intel 430TX (PIIX4E)	Intel 430TX (PIIX4M)	Intel 430TX (PIIX4M)	Intel 82443MX(Banister)
BIOS All BIOS are AT-compatible	AT Compatible	AT Compatible	AT Compatible	AT Compatible
System BIOS Updates				
Model/Sub-r fixed with FC/01 for all systems				
Memory Map				
F0000-FFFFFF				
E0000-EFFFF				
D0000-DFFFF				
C7FFF-CFFFF	Video C8000-CBFFF	Video C8000-CBFFF	Video C8000-CBFFF	Video C8000-CBFFF
C0000-C7FFF	Video BIOS	Video BIOS	Video BIOS	Video BIOS
A0000-BFFFF	Video RAM	Video RAM	Video RAM	Video RAM
<b>Memory</b>				
Data Path	64-bit	64-bit	64-bit	64-bit
Voltage	3.3V	3.3V	3.3V	3.3V
Technology	SDRAM	SDRAM	SDRAM	SDRAM
<b>Battery</b>				
Type	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Battery Installation Check Utility				
<b>LCD</b>	10.4" TFT 800x600	10.4" TFT 800x600	10.4" TFT 800x600	10.4" TFT 800x600

<b>Docking</b>				
	SelectaDock I / II / III			
	Diagnostic Diskette	N/A	N/A	N/A
<b>Graphics</b>				
	Chipset	NM2160C	NM2160C	NM2160C
	VRAM/DRAM	2.0MB	2.0MB	2.0MB
	Graphics Data Path	128b	128b	128b
	H/W Expansion	Yes	Yes	Yes
	DPMS	Yes	Yes	Yes
	Video BIOS			
	LCD Display Modes (See below for VESA display modes.)			
	VGA	10.4"	10.4"	10.4"
	Vesa101	60Hz	60Hz	60Hz
	Vesa111	60Hz	60Hz	60Hz
*1	Vesa112	60Hz	60Hz	60Hz
	Vesa102	60Hz	60Hz	60Hz
	Vesa103	60Hz	60Hz	60Hz
	Vesa114	60Hz	60Hz	60Hz
*1	Vesa115	60Hz	60Hz	60Hz
	Vesa104	60Hz	60Hz	60Hz
	Vesa105	60Hz	60Hz	60Hz
	Vesa117	60Hz	60Hz	60Hz
	Vesa118	No	No	No
	Vesa106	No	No	No
	Vesa107	No	No	No
	CRT Display Modes (See below for VESA display modes.)			
	VGA	60 / 70 Hz	60 / 70 Hz	60 / 70 Hz
	Vesa101	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
	Vesa111	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
*1	Vesa112	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
	Vesa102	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
	Vesa103	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
	Vesa114	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
*1	Vesa115	60 / 75 / 85 Hz	60 / 75 / 85 Hz	60 / 75 / 85 Hz
	Vesa104	60Hz	60Hz	60Hz
	Vesa105	60 / 70 / 75 Hz	60 / 70 / 75 Hz	60 / 70 / 75 Hz
	Vesa117	60 / 70 / 75 Hz	60 / 70 / 75 Hz	60 / 70 / 75 Hz
	Vesa118	No	No	No
	Vesa106	No	No	No
	Vesa107	No	No	No
*1	Win 3.11 Video Features			
*1	Win 95 Video Features			
	Win 95/98 Video Features	IRD104WW ver 6.23.	IRD108WW ver 6.25.	IRD111WW ver. 6.28.
*1	OS/2 Warp 4.0 Video Features			KSD114WW ver 4.11.0
*1	WinNT3.51 Video Features			
*1	WinNT4.0 Video Features	IRD203WW ver 3.28Q	IRD210WW ver. 3.33.	IRD210WW ver. 3.33.
	LCD	640x480 256/64K/16M 800x600 256/64K/16M	640x480 256/64K/16M 800x600 256/64K/16M	640x480 256/64K/16M 800x600 256/64K/16M
	CRT	640x480 256/64K/16M 800x600 256/64K/16M 1024x768 256/64K	640x480 256/64K/16M 800x600 256/64K/16M 1024x768 256/64K	640x480 256/64K/16M 800x600 256/64K/16M 1024x768 256/64K
		No High Resolution	No High Resolution	No High Resolution
<b>PCMCIA</b>				
	IBM PC Card Director utility	N/A	N/A	N/A
	Dos/Win			
	Win95			
	OS/2			
	WinNT *3			
	SystemSoft			
	CardSoft for DOS			
	CardWizard for Win3.1			
	CardWorks for Win95			
	CardWizard for WinNT			
	Slot			
	CardBus			
	ZV Port Enabled			
<b>Audio</b>				
	Driver	ES1946	ES1946	ES1946
	DOS/Win3.11			
	Win95			
	Win95/Win98	IRA107US ver 1113	IRA110US ver 4.06.00	IRA110US ver 4.06.00
				KSA106WW ver 4.12.50
				KSA401WW ver 5.12.50

	Warp				
	WinNT	IRA303US ver 4.05.18	IRA303US ver 4.05.18	IRA303US ver 4.05.18	KSA207WW ver 4.01.50
	Voyetra AudioStation Disk for Win31				
<b>MIDI</b>	I/F				
	Driver				
	DOS/Win				
	Win95				
	Warp				
	WinNT				
	Wave Table Audio				
	DOS/Win				
	Win95				
	Warp				
	WinNT				
<b>Integrated Modem</b>		WS-5614BMDG	WS-5614BMDG	WS-5614BMDG	WS-5614BMDG
	Drivers *2				
	DOS/Win3.11				
	Win95	IRM102WW ver 5.37			
	Win95 / 98				
	Win95 / 98 / NT	IRM102US ver 5.37	IRM402WW ver 5.48	IRM402WW ver 5.48	KSM501WW ver 5.62
	Warp				
	WinNT				
	Speed	Up to 56Kbps	Up to 56Kbps	Up to 56Kbps	Up to 56Kbps
	VOD				
<b>IR</b>					
	Win3.11/95/Warp Driver				
	HP Mode (115Kbps)	Yes	Yes	Yes	Yes
	Sharp Mode (9600)	No	No	No	No
	IBM Mode (1.15Mbps)	Yes	Yes	Yes	Yes
	4Mbps	Yes	Yes	Yes	Yes
	WinNT				
	Infrared Features Disk II				
<b>CD-ROM</b>					
	Driver	N/A	N/A	N/A	N/A
	Dos/Win				
	Win95				
	Warp				
	WinNT				
	Speed				
<b>DVD ROM</b>					
	Driver	N/A	N/A	N/A	N/A
	DVD-Video Player for Win 95/98				
	Speed				
<b>MPEG 2 Support</b>					
	Features	N/A	N/A	N/A	N/A
	DOS				
	Win3.11				
	Microsoft Win32s Setup				
	Win95				
	Warp				
	WinNT				
	MMPM/2 MPEG Update for OS/2				
	Video CD Player				
	DOS				
	Win3.11				
	Win95				
	Warp				
	WinNT				
	Video Capture Driver				
	Win95				
	Win98				
	WinNT 4.0				
	DVD Player				
	DOS				
	Win3.11				
	Win95				
	Warp				
	WinNT				
	DVD Movie for Win95				
	DVD Movie Region for Win95				
	MPEG-1 (Hrdware assisted)				
	MPEG-2 HHR NTSC				
	MPEG-2 HHR PAL				

MPEG-2 (Full)				
Dolby digital audio with AC-3 support				
<b>Enhanced Video</b>				
Driver	N/A	N/A	N/A	N/A
DOS				
Win3.11				
Win95				
Warp				
WinNT				
Overlay				
Acceleration				
TV Out (NTSC/PAL)				
<b>TrackPoint</b>				
Driver				
Win95/WinNT				
Warp				
Win98/ Win95/ WinNT	IEG107US ver 1.02	IEG107US ver 1.02	IEG107US ver 1.02	IEG110US ver 2.01.00
<b>Systems Mgmt</b>				
LANDesk Client Manager Driver	N/A	N/A	N/A	N/A
Disk II for OS/2				
Win95				
WinNT				
Disk II for Win95/98/NT				

- 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 National Language versions available outside US
  - \*3 WinNT provides native support. WinNT 4.0 PC Card Director Version 1.00 available for download from the Internet.

**Notes**

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