

1-13-00

T20 21U/61U	T20 41U/81U
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The purpose of this spreadsheet is to provide a guide to the compatibility within and between the ThinkPad T Series 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 s. 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 Although it is current as it is being created, it will become out of date over 1. For the current list of the levels of the latest software drivers, see the support page on the IBM ThinkPad web site at:

**Supported OS Version**

PC-DOS 7.0	No	No
PC DOS 2000	No	No
MS-DOS 6.22	No	No
Windows 3.11	No	No
Windows for WG 3.11	No	No
Windows 95 (OSR1 - Win95 Retail + Service Pack 1)	Yes	Yes
Windows 95 (OSR2/2.1 - adds USB and new IE browser)	Yes	Yes
Windows 98	Yes	Yes
Windows 98 SE	Yes	Yes

For drivers: [http://www.us.pc.ibm.com/support/thinkpad/thinkpad\\_support.html](http://www.us.pc.ibm.com/support/thinkpad/thinkpad_support.html)

1-13-00

	<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
Windows NT Workstation 3.51	No	No
Windows NT Workstation 4.0 Service Pack 3	No	No
Windows NT Workstation 4.0 Service Pack 4	Yes	Yes
Windows NT Workstation 4.0 Service Pack 5	Yes	Yes
Windows NT Workstation 4.0 Service Pack 6a	Yes	Yes
Windows 2000	Yes	Yes
OS/2 Warp 4.0	Yes	Yes
<b>System Utility (ThinkPad Features / Configuration)</b>		
Utility Diskette for DOS,Personalization	Version 4.18	Version 4.18
Utility Diskette for Win3.1	N/A	N/A
Utility Diskette for Win95	N/A	N/A
Utility Diskette for Win95/98	N/A	N/A
Utility Diskette for Win95/98/2000	Version 1.14	Version 1.14
Utility Driver Disk for Win95	N/A	N/A
Win95 Supplement File Disk II	N/A	N/A
Win98 Supplement File Disk II	N/A	N/A
Utility Diskette for Win98 Disk I	N/A	N/A
Utility Diskette for Win98 Disk II	N/A	N/A
Utility Diskette for OS/2 Warp	N/A	N/A
Utility Diskette for WinNT	Version 4.17	Version 4.17
Utility Data Diskette I	Version 1.02	Version 1.02

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1-13-00

Utility Data Diskette II  
Utility Data Diskette II  
Utility Data Diskette I for Win95/98  
**Utility Data I for Win95/98/2000**  
Utility Data Diskette I for Win 98  
Utility Data Diskette II for Win 98  
Utility Data Diskette III for Win 98  
IDE Driver Diskette  
**Utility Driver III for Win95/98 APM**  
OS/2 Warp Install Diskette I  
OS/2 Warp Install Diskette II  
Personalization Data Update Disk  
**Utilityb Features for Win95/98/NT4/2000**  
**IBM PM Driver for Win2000**  
**On Screen Display for Win95/98/NT4/2000**  
**Hibernation Utility for Standalone boot**  
**Hibernation Utility (Phdisk) for Win95/98/NT**  
**SpeedStep Technology Applet**  
**SpeedStep Technology Applet for OS/2**  
**Available in OS/2 DDPak Online Web**

<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
N/A	N/A
N/A	N/A
N/A	N/A
<b>Version 1.11</b>	<b>Version 1.11</b>
N/A	N/A
N/A	N/A
N/A	N/A
Version 1.05	Version 1.05
<b>Version 1.00</b>	<b>Version 1.00</b>
Version 1.05	Version 1.05
Version 1.00	Version 1.00
N/A	N/A
<b>Version 1.00</b>	<b>Version 1.00</b>
<b>Version 1.10</b>	<b>Version 1.10</b>
<b>Version 2.01.00</b>	<b>Version 2.01.00</b>
<b>Version 4.03A</b>	<b>Version 4.03A</b>
<b>Version 1.01.017</b>	<b>Version 1.01.017</b>
<b>Version 1.10</b>	<b>Version 1.10</b>
<b>Version 1.0</b>	<b>Version 1.0</b>

### **System Board**

1-13-00

	<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
Intel MMO	No (uPGA)	No (uPGA)
System Bus	PCI	PCI
HDD Interface	Enhanced IDE	Enhanced IDE
I/O Port		
Serial	16550 Compatible	16550 Compatible
Parallel	ECP/EPP	ECP/EPP
USB Controller	Intel 82371AB(PIIX4)	Intel 82371AB(PIIX4)
BIOS	All BIOS are AT-compatible	AT Compatible
System BIOS Updates	Version 1.01	Version 1.01
Model/Sub-model fixed with FC/01 for all sy:	FC/01	FC/01
Memory Map		
F0000-FFFFFF	BIOS	BIOS
E0000-EFFFF		
D0000-DFFFF		
C7FFF-CFFFF	Video BIOS (C7FFF-C9FFF)	Video BIOS (C7FFF-C9FFF)
C0000-C7FFF	Video BIOS	Video BIOS
A0000-BFFFF	Video RAM	Video RAM
<b>Memory</b>		
Data Path	64-bit	64-bit
Voltage	3.3V	3.3V

1-13-00

		<b>T20 21U/61U SDRAM</b>	<b>T20 41U/81U SDRAM</b>
<b>Battery</b>	Technology		
	Type Battery Installation Check Utility	Li-Ion	Li-Ion
<b>LCD</b>		13.3" TFT 1024x768	14.1" TFT 1024x768
<b>Docking</b>	<b>SelectaDock I / II /III</b>		
	Diagnostic Diskette	N/A	N/A
	<b>ThinkPad Dock</b>		
	Diagnostic Diskette	N/A	N/A

T20 21U/61U	T20 41U/81U
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**Graphics**

Chipset	S3 Savage IX8	S3 Savage IX8
VRAM/DRAM	8.0MB SGRAM	8.0MB SGRAM
Graphics Data Path	64 bits	64 bits
H/W Expansion	Yes	Yes
DPMS	Yes	Yes
Video BIOS		
LCD Display Modes (See below for VESA display modes.)		
VGA	60Hz	60Hz
Vesa101	60Hz	60Hz
Vesa111	60Hz	60Hz
*1 Vesa112	60Hz	60Hz
Vesa102	60Hz	60Hz
Vesa103	60Hz	60Hz
Vesa114	60Hz	60Hz
*1 Vesa115	60Hz	60Hz
Vesa104	60Hz	60Hz
Vesa105	60Hz	60Hz
Vesa117	60Hz	60Hz
Vesa118	60Hz	60Hz
Vesa106	60Hz (*24)	60Hz (*24)

1-13-00

		<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
	Vesa107	60Hz (*24)	60Hz (*24)
	CRT Display Modes (See below for VESA display modes.)		
	VGA	60/75/85Hz	60/75/85Hz
	Vesa101	60/75/85Hz	60/75/85Hz
	Vesa111	60/75/85Hz	60/75/85Hz
*1	Vesa112	60/75/85Hz	60/75/85Hz
	Vesa102	60/75/85Hz	60/75/85Hz
	Vesa103	60/75/85Hz	60/75/85Hz
	Vesa114	60/75/85Hz	60/75/85Hz
*1	Vesa115	60/75/85Hz	60/75/85Hz
	Vesa104	60/70/75/85Hz	60/70/75/85Hz
	Vesa105	60/70/75/85Hz	60/70/75/85Hz
	Vesa117	60/70/75/85Hz	60/70/75/85Hz
	Vesa118	60/70/75/85Hz	60/70/75/85Hz
	Vesa106	60/75/85Hz	60/75/85Hz
	Vesa107	60/75/85Hz	60/75/85Hz
*1	Win 3.11 Video Features	N/A	N/A
*1	Win 95 Video Features	N/A	N/A
	Win 95/98 Video Features	Version 7.02.86	Version 7.02.86
*1	OS/2 Warp 4.0 Video Features	Version 7.00.14	Version 7.00.14

1-13-00

\*1

WinNT3.51 Video Features

\*1

WinNT4.0 Video Features

Win2000 Video Features

LCD

CRT

**T20  
21U/61U**

N/A

Version 7.10.15

Version 7.30.24

800x600 256/64K/16M

1024x768 256/64K/16M

640x480 256/64K/16M

800x600 256/64K/16M

1024x768 256/64K/16M

1280x1024 256/64K/16M

**T20  
41U/81U**

N/A

Version 7.10.15

Version 7.30.24

800x600 256/64K/16M

1024x768 256/64K/16M

640x480 256/64K/16M

800x600 256/64K/16M

1024x768 256/64K/16M

1280x1024 256/64K/16M

**PCMCIA**

IBM PC Card Director utility

Dos/Win

N/A

N/A

Win95

N/A

N/A

OS/2

Yes

Yes

Available in OS/2 DDPak Online Web



1-13-00

		<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
SystemSoft	WinNT *13	N/A	N/A
	CardSoft for DOS		
	CardWizard for Win3.1		
	CardWorks for Win95		
	CardWizard for WinNT	Version 5.00.13m	Version 5.00.13m
<b>PC Card Driver for Minimum DOS Support</b>			
<b>PC Card Driver for DOS</b>		<b>Version 1.00</b>	<b>Version 1.00</b>
Slot		TII x 2 or TIII x 1	TII x 2 or TIII x 1
CardBus		Yes	Yes
ZV Port Enabled		Yes / No (OS/2 Warp 4)	Yes / No (OS/2 Warp 4)
<b>Audio</b>			
Driver		CS4624B +CS4297A	CS4624B +CS4297A
	DOS/Win3.11	N/A	N/A
	Win95	N/A	N/A
	Win95/Win98	Version 4.11.2884	Version 4.11.2884
	Warp	Version 3.05	Version 3.05
	WinNT	PS2081A	PS2081A
	Voyetra AudioStation Disl	N/A	N/A
	<b>Win2000</b>	<b>Version 5.12.01.3031</b>	<b>Version 5.12.01.3031</b>

For drivers: [http://www.us.pc.ibm.com/support/thinkpad/thinkpad\\_support.html](http://www.us.pc.ibm.com/support/thinkpad/thinkpad_support.html)

1-13-00

		<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
<b>MIDI</b>	I/F Driver	CS4624B +CS4297A	CS4624B +CS4297A
	DOS/Win	N/A	N/A
	Win95	N/A	N/A
	Win95/Win98	Version 4.11.2884	Version 4.11.2884
	Warp	Version 3.05	Version 3.05
	WinNT	PS2081A	PS2081A
	Win2000	Version 5.12.01.3031	Version 5.12.01.3031
	Wave Table Audio		
	DOS/Win		
	Win95		
	Warp		
	WinNT		
<b>Integrated Modem</b>			
	Drivers *6		
	DOS/Win3.11	N/A	N/A
	Win95	N/A	N/A
	Win95 / 98	N/A	N/A
	Win95 / 98 / NT	Version 5.74	Version 5.74

For drivers: [http://www.us.pc.ibm.com/support/thinkpad/thinkpad\\_support.html](http://www.us.pc.ibm.com/support/thinkpad/thinkpad_support.html)

1-13-00

		<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
	Warp	N/A	N/A
	WinNT	N/A	N/A
	Win2000	Version 5.74	Version 5.74
Speed		Up to 56Kbps	Up to 56Kbps
VOD		No	No
<b>IR</b>		<b>NS97338</b>	<b>NS97338</b>
	Win3.11/95/Warp Driver	N/A	N/A
	HP Mode (115Kbps)	N/A	N/A
	Sharp Mode (9600)	N/A	N/A
	IBM Mode (1.15Mbps)	N/A	N/A
	4Mbps	N/A	N/A
	WinNT	N/A	N/A
	Infrared Features Disk II	N/A	N/A
	OS/2 Warp 4	N/A	N/A
<b>CD-ROM</b>			
	Driver		
	Dos/Win	Version 3.12	Version 3.12
	Win95	N/A	N/A
	Warp	N/A	N/A
	WinNT		

1-13-00

	<b>T20 21U/61U</b>	<b>T20 41U/81U</b>
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Speed

24X-10X

N/A

**DVD ROM**

Driver

DVD-Video Player for Wir

Version 5.00.00.40

Version 5.00.00.40

Speed

N/A

6X

**MPEG 2 Support**

N/A

N/A

Features

DOS  
Win3.11  
Microsoft Win32s Setup  
Win95

Warp  
WinNT

MMPM/2 MPEG Update for OS/2

Video CD Player

DOS  
Win3.11  
Win95

1-13-00

T20 21U/61U	T20 41U/81U
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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

**Enhanced Video**

Driver	N/A	N/A
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1-13-00

T20 21U/61U	T20 41U/81U
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DOS  
Win3.11  
Win95  
Warp  
WinNT

Overlay  
Acceleration  
TV Out (NTSC/PAL)

**TrackPoint**

Driver

Win95/WinNT  
Warp  
Win98/ Win95/ WinNT

N/A  
Version 1.02  
Version 2.00

N/A  
Version 1.02  
Version 2.00

**Systems Mgmt**

LANDesk Client Manager Driver  
Disk II for OS/2  
Win95  
WinNT  
Disk II for Win95/98/NT

**Mini PCI**

T20 21U/61U	T20 41U/81U
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Intel Pro/100 Mini PCI Ethernet		
DOS, Win95/98/NT4/2000	Version 3.5 Build 10986	Version 3.5 Build 10986
Xircom MPCII+ Modem 56 WinGlobal		
Win95/98/NT4	Version 1.73.5.2A	Version 1.73.5.2A
Win2000	Version 1.73.5.2A	Version 1.73.5.2A
3COM Mini-PCI 56K Modem		
Win95/98	Version 2.28.032.0066	Version 2.28.032.0066
WinNT4	Version 1.28.032.0066	Version 1.28.032.0066
Win2000	Version 3.28.032.0066	Version 3.28.032.0066
3COM 10/100 Ethernet		
	NDIS3 1.4.3000.1, NDIS4	NDIS3 1.4.3000.1, NDIS4 1
DOS, Win95/98/NT4/2000	1.10.09, NDIS5 1.10.09	.10.09, NDIS5 1.10.09

**CMD**

CMD Ultra DMA IDE		
DOS, Win95/98/NT4/2000	Version 1.00	Version 1.00
OS/2 Warp 4	Yes	Yes
Included in "IBM ThinkPad OS/2 Warp 4 Install Disk 1 Update Version 1.05"		

- 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

T20 21U/61U	T20 41U/81U
*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 Display with panning	



1-13-00

T20 21U/61U	T20 41U/81U
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**Reference Information:  
VESA Display Modes**

- Mode**
- 101
  - 111
  - 112
  - 102
  - 103
  - 114
  - 115
  - 104
  - 105
  - 117
  - 118 (55U only)
  - 106
  - 107

**Notes**

This spreadsheet should be used as a reference tool only.



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