

600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
------------------------	-----------------------	----------------	-------------

The purpose of this spreadsheet is to provide a guide to the compatibility within and between the ThinkPad 600 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 Although it is current as it is being created, it will become out of date over time.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: <http://www.pc.ibm.com/support/thinkpad/tpopsys.html>

Supported OS Version

PC-DOS 7.0		Yes	Yes	Yes
PC DOS 2000	Yes			
MS-DOS 6.22	Yes	Yes	Yes	Yes
Windows 3.11	Yes	Yes	Yes	Yes
Windows for WG 3.11	Yes	Yes	Yes	Yes
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
Windows NT Workstation 3.51		No	No	No
Windows NT Workstation 4.0 Service Pack 3	Yes	Yes	Yes	Yes
Windows NT Workstation 4.0 Service Pack 4	Yes			
Windows 2000 (When available)	Yes			
OS/2 Warp 4.0	Yes (FixPack 5 or later)	Yes(SP6)	Yes(SP7)	Yes(SP7)

System Utility (ThinkPad Features / Configuration)

Utility Diskette for DOS, Personalization	Version 4.14	Version 4.11	Version 4.12	Version 4.13
Utility Diskette for Win3.1			Version 4.12	Version 4.13
Utility Diskette for Win95		Version 4.11	Version 4.12	Version 4.13
Utility Diskette for Win95/98	Version 1.10			
Utility Driver Disk for Win95	Version 1.02			Version 1.01
Win95 Supplement File Disk II	Version 1.03	Version 1.01	Version 1.01	Version 1.02
Win98 Supplement File Disk II	Version 1.04		Version 1.01	Version 1.02
Utility Diskette for Win98 Disk I				Version 1.01a

1-25-99

	600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
Utility Diskette for Win98 Disk II				Version 1.01
Utility Diskette for OS/2 Warp			Version 4.12	Version 4.13
Utility Diskette for WinNT	Version 4.14	Version 4.11	Version 4.12	Version 4.13
Utility Data Diskette I	Version 1.01	Version 1.00	Version 1.01	Version 1.01
Utility Data Diskette II				
Utility Data Diskette II				
Utility Data Diskette I for Win95/98	Version 1.00			
Utility Data Diskette I for Win 98				Version 1.00
Utility Data Diskette II for Win 98				
Utility Data Diskette III for Win 98				
IDE Driver Diskette	Version 1.01	Version 1.00	Version 1.00	Version 1.00
OS/2 Warp Install Diskette I			Version 1.01	Version 1.01
OS/2 Warp Install Diskette II			Version 1.00	Version 1.00
Personalization Data Update Disk	Version 4.14			

System Board

Intel MMO	Yes	Yes	Yes	Yes
System Bus	PCI	PCI	PCI	PCI
HDD Interface	Enhanced IDE	Enhanced IDE	Enhanced IDE	Enhanced IDE
I/O Port				
Serial	16550 Compatible	PC973388	PC973388	PC973388
Parallel	ECP/EPP	ECP/EPP	ECP/EPP	ECP/EPP
USB Controller	Intel 430TX (PIIX4E)	Intel 430TX (PIIX4)	Intel 430TX (PIIX4)	Intel 82371EB
BIOS All BIOS are AT-compatible	AT Compatible	AT Compatible	AT Compatible	AT Compatible
System BIOS Updates		1.03	1.03	<-----
Model/Sub-model fixed with FC/01 for all systems				
Memory Map				
F0000-FFFF		64K ROM mapped to RAM	64K ROM mapped to RAM	64K ROM mapped to RAM
E0000-EFFFF				
D0000-DFFFF				
C7FFF-CFFFF	Video C8000-CBFFF	Video C7FFF - C9FFF	Video (C8000-C9FFF)	Video (C8000-C9FFF)
C0000-C7FFF	Video BIOS	Video Bios ROM mapped to RAM	<-----	<-----
A0000-BFFFF	Video RAM	Video RAM	SGRAM	SGRAM

Memory

	600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
Battery				
Data Path	64-bit	64-bit	64-bit	64-bit
Voltage	3.3V	3.3V	3.3V	3.3V
Technology	SDRAM	SDRAM	SDRAM	SDRAM
Type	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Battery Installation Check Utility				
LCD				
	13.3" TFT 1024x768	13.3" TFT 1024x768 12.1" TFT 800X600 13.0" HPA 1024x768	13.3" TFT 1024x768	13.3" TFT 1024x768
Docking				
SelectaDock I / II / III	Diagnostic Diskette	PC Card Features Disk Version 1.01 Version 1.01	PC Card Features Disk Version 1.01 Version 1.01	PC Card Features Disk Version 1.01 Version 1.01
Graphics				
Chipset	NeoMagic NM2200	NeoMagic NM2160	NeoMagic NM2160	NeoMagic 2200
VRAM/DRAM	2.5MB SGRAM	2MB SGRAM	2MB SGRAM	2.5MB SGRAM
Graphics Data Path	128 bit	128 bit	128 bit	128 bit
H/W Expansion	Yes	Yes	Yes	Yes
DPMS	Yes	Yes	Yes	Yes
Video BIOS	??			
LCD Display Modes (See below for VESA display modes.)				
VGA	13.3" ONLY	(12.1" TFT/ 13.3" TFT/ 13.0" HPA)	13.3" ONLY	13.3" ONLY
Vesa101	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
Vesa111	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
*1 Vesa112	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
Vesa102	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
Vesa103	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
Vesa114	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
*1 Vesa115	60Hz	60Hz / 60Hz / 120Hz	60Hz	60Hz
Vesa104	60Hz	No / 60Hz/ 120Hz	60Hz	60Hz
Vesa105	60Hz	No / 60Hz/ 120Hz	60Hz	60Hz
Vesa117	60Hz	No / 60Hz/ 120Hz	60Hz	60Hz
Vesa118	60Hz	No	No	No

	600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
Vesa106	No	No	No	No
Vesa107	No	No	No	No
CRT Display Modes (See below for VESA display modes.)				
VGA	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
Vesa101	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
Vesa111	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
*1 Vesa112	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
Vesa102	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
Vesa103	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
Vesa114	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
*1 Vesa115	60/75/85Hz	60/75/85Hz	60/75/85Hz	60/75/85Hz
Vesa104	60/70/75/85Hz	60/75/85Hz	60/75/85Hz	60/70/75/85Hz
Vesa105	60/70/75/85Hz	60/75/85Hz	60/75/85Hz	60/70/75/85Hz
Vesa117	60/70/75/85Hz	60/75/85Hz	60/75/85Hz	60/70/75/85Hz
Vesa118	60/70/75/85Hz	No	No	60/70/75/85Hz
Vesa106	No	No	No	No
Vesa107	60Hz	No	No	60Hz
*1 Win 3.11 Video Features	Version 1.16			
*1 Win 95 Video Features		Version 6.10.11Q	Version 5.08	Version 1.10
Win 95/98 Video Features	Version 2.03.05Q		Version 6.14.00Q	Version 1.17.05Q
*1 OS/2 Warp 4.0 Video Features	Version 4.24		Version 3.44	Version 4.16
*1 WinNT3.51 Video Features				
*1 WinNT4.0 Video Features	Version 4.22.02Q	Version 3.17.07Q	Version 3.22Q	Version 4.12Q
LCD	640x480 256/64K/16M	640x480 256/64K/16M	640x480 256/64K/16M	640x480 256/64K/16M
	800x600 256/64K/16M	800x600 256/64K/16M	800x600 256/64K/16M	800x600 256/64K/16M
	1024x768 256/64K/16M	1024x768 256/64K *23	1024x768 256/64K	1024x768 256/64K/16M
CRT	640x480 256/64K/16M	640x480 256/64K/16M	640x480 256/64K/16M	640x480 256/64K/16M
	800x600 256/64K/16M	800x600 256/64K/16M	800x600 256/64K/16M	800x600 256/64K/16M
	1024x768 256/64K/16M	1024x768 256/64K *23	1024x768 256/64K *23	1024x768 256/64K/16M
		1024x768 256/64K/16M	1024x768 256/64K	1280 X 1024 256
				1024x768 256/64K/16M

600 3AU/4AU/5AU/8AU No High Resolution	600 51U/ 41U / 35U No Higher Resolution	600 45U/85U No Higher Resolution	600E 55U No Higher Resolution
--	---	--	-------------------------------------

PCMCIA

IBM PC Card Director utility		TI PCI 1250	TI PCI 1250A	TI PCI 1251(TI 104698 GFN)
Dos/Win		Ver. 5.32.18		
Win95		5.32.18		
OS/2		1.09	Version 4.09	Version 4.10
WinNT *13		3.10.04		
SystemSoft				
CardSoft for DOS			Version 5.32.20	Version 5.32.21
CardWizard for Win3.1			Version 5.32.20	Version 5.32.21
CardWorks for Win95	Version 5.32.24.SK4	Version 5.32.20	Version 5.32.22	Version 5.32.24
CardWizard for WinNT	Version 4.10.13	Version 3.10.04	Version 3.10.04	Version 3.10.04K
Slot				
CardBus				
ZV Port Enabled				

Audio

Driver	CS4237	CS4237B	CS4237	CS4239 and CS4610
DOS/Win3.11			Version 1.82	Version 2.00
Win95		Version 2.60		
Win95/Win98	Version 2.86		Version 2.80	Version 2.83
Warp			Version 1.70	Version 2.02
WinNT	Version 1.92	Version 1.80	Version 1.80	Version 1.90
Voyetra AudioStation Disk for Win31				Version 1.80

MIDI

I/F				
Driver				
DOS/Win				
Win95		Version 2.35 *22		
Warp				
WinNT		Version 2.35 *22		
Wave Table Audio		3780i DSP		
DOS/Win				

		600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
Win95					
Warp					
WinNT					
<hr/>					
Integrated Modem		3780i DSP *22	3780i DSP *22	3780i DSP *22	3780i DSP *22
Drivers *6					
	DOS/Win3.11			Version 2.35	Version 2.36
	Win95		Version 2.35		
	Win95 / 98			Version 2.36	
	Win95 / 98 / NT	Version 2.51			Version 2.50
	Warp			Version 2.35	Version 2.36
	WinNT		Version 2.35	Version 2.351	
Speed		Up to 56Kbps	Up to 56Kbps		
VOD		Yes	Yes		
<hr/>					
IR		NS97338	NS97338	NS97338	NS97338
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		Version 1.13	Version 1.11 (NT 4.0)	Version 1.11 (NT 4.0)	Version 1.12 (NT 4.0)
Infrared Features Disk II				Version 1.02	Version 1.02
<hr/>					
CD-ROM					
Driver					
	Dos/Win	Version 3.12	Version 3.11	Version 3.12	Version 3.12
	Win95				
	Warp				
	WinNT				
Speed		24X-10X (3AU/4AU/8AU)	24X-10X (21U, 41U, 51U only)		
<hr/>					
DVD ROM					
Driver					
	DVD-Video Player for Win 95/98	Version 4.00.0018.1.3			

1-25-99

MPEG 2 Support

	600 3AU/4AU/5AU/8AU 2X (Model 5AU only)	600 51U/ 41U / 35U 20X-2X (55U only)	600 45U/85U <--	600E 55U
Speed				
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				Yes
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				

		600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
Enhanced Video	Driver				
		DOS	N/A	N/A	N/A
		Win3.11	N/A	N/A	N/A
		Win95	N/A	N/A	N/A
		Warp	N/A	N/A	N/A
		WinNT	N/A	N/A	N/A
		Overlay	N/A	N/A	N/A
	Acceleration	N/A	N/A	N/A	
	TV Out (NTSC/PAL)	N/A	N/A	N/A	
<hr/>					
TrackPoint	Driver				
		Win95/WinNT		Version 1.05	Version 1.06
		Warp		Version 1.02	Version 1.02
		Win98/ Win95/ WinNT	Version 1.11		Version 1.09
<hr/>					
Systems Mgmt	LANDesk Client Manager Driver				
		Disk II for OS/2			
		Win95		Version 1.01	
		WinNT		Version 1.01	
		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 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.

600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
--------------------------------------	-------------------------------------	------------------------------	---------------------------

- *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

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.
 IBM makes no representation or guarantee regarding the information contained herein.
 INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS BRIEF "AS IS" WITHOUT WARRANTY
 OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED

600 3AU/4AU/5AU/8AU	600 51U/ 41U / 35U	600 45U/85U	600E 55U
--------------------------------------	-------------------------------------	------------------------------	---------------------------

WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states or countries do not allow disclaimer or express or implied warranties in certain transactions, therefore, this statement may not apply to you.

IBM will continue to enhance products and services as new technologies emerge. IBM, therefore, reserves the right to alter specifications and other product information without prior notice. References in this publication to IBM products and services do not imply that IBM intends to make them available in all countries in which IBM operates. Check with your IBM representative for specific models.

©IBM and ThinkPad are registered trademarks of International Business Machines Corp.