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Compatibility Chart

Company	Current version compatible with Windows 3.1	Upgrade available	Upgrade shipping with Win 3.1	Available via download	Telephone numbers (M=main, TS=technical support)
MOUSE DRIVER Microsoft Corp. Microsoft Mouse Driver, Version 8.1	y	n	y	n	800-426-9400
PRINTER DRIVERS Canon USA Inc.	y	y	y	y (BBS #: 516-488-6528)	516-488-6700 (M), 800-423-2366 (TS)
Citizen America Corp.	n	y	y	n	310-453-614
Digital Equipment Corp. Video, Image and Print Systems Group	y	y	y	y (CompuServe forum: DECPCI, file: DEC WPD)	800-344-4825 (M), 508-635-8293 (TS)
Eastman Kodak Co.	y	y	n	n	800-244-2424 (M), 800-344-0006 (TS)
Epson America Inc.	y	y	y	n	800-922-8911
Hewlett-Packard Co.	y	y	y	n	800-752-0900 (M), 208-323-2551 (TS)

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Lexmark International Inc.	y	y	y	y (BBS #: 606-232-5653)	800-426-2468
Mannesmann Tally Corp.	Emulations only	n	n	n	206-251-5500 (M), 206-251-5593 (TS)
NEC Technologies Inc.	y	y	y	y (BBS #: 508-635-6328)	508-264-8000 (M), 800-388-8888 (TS)
Okidata Corp.	y	y	y	y (BBS #: 800-654-3282)	609-235-2600 (M), 800-654-3282 (TS)
Packard Bell	y	n	n	n	818-886-4600 (M), 800-733-4411 (TS)
Panasonic Communications and Systems Co. QMS Inc.	y	y	y	y (BBS #: 201-863-7487)	201-348-7000 (M), 800-222-0584 (TS)
	y	y	n	y (BBS #: 205-633-3632)	800-631-2692 (M), 205-633-4500 (TS)

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Tektronix Inc.	y	y*	y	n	800-835-9433 (M), 800-835-6100 (TS)
Texas Instruments Inc.	y	y	y	n	800-527-3500 (M), 512-250-7407 (TS)
Varityper Inc.	y	y	n	y (CompuServe forum: Desktop Publishing/ Service Bureau Utils)	201-887-8000 (M), 900-370-2656 (TS)
SOUND BOARD DRIVERS					
Creative Labs Inc. Sound Blaster	y	y	y	y (BBS #: 408-428-6660)	408-986-1461 (M), 408-982-9226 (TS)
Sound Blaster Pro	y	y	n	y (BBS #: 408-428-6660)	408-986-1461 (M), 408-982-9226 (TS)
Creative Multimedia Upgrade Kit	y	y	n	y (BBS #: 408-428-6660)	408-986-1461 (M), 408-982-9226 (TS)
Media Vision Pro AudioSpectrum, 16 CDPC Thunder Board, Thunderport, Multimedia PC Upgrade Kit	y	y	n	y (BBS #: 510-770-0968)	800-638-2807 (M), 510-770-9905 (TS)
Roland Corp. US Soundcards	y	y	n	n	213-685-5141
Turtle Beach Systems Inc. MultiSound	y	n	y*	n	717-843-6916
TYPE MANAGERS					
Adobe Systems Inc. Adobe Type Library	y	n	n	n	800-833-6687 (M), 415-961-0911 (TS)
Adobe Type Manager 2.0 (all versions)	y	n	n	n	800-833-6687 (M), 415-961-0911 (TS)
Bitstream Inc. FaceLift for Windows 2.0	y	n	n	n	617-497-6222 (M), 617-497-7514 (TS)

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Hewlett-Packard Co. Intellifonts for Windows 1.1	y	y	n	y (CompuServe forum: HP Peripherals; prompt: GO HPPER; file: LaserJet Library4/ L3WIN3.ZIP)	800-752-0900 (M), 208-323-2551 (TS)
IQ Engineering Super Cartridge	y	n	n	n	800-765-3668
MicroLogic Software MoreFonts	y	y	n	n	510-652-5464
Display Faces 1.01, Classic Faces 1.01	y	y	n	n	510-652-5464
Pacific Data Products Inc. PacificPage PE PacificPage II PacificPage II/XL	y	n	n	y (BBS #: 619-452-6329 CompuServe: GO_PACDATA)	619-552-0880 (M), 619-587-4690 (TS)
Complete Font Library, FontBank Cartridge, 25 in One!	y	n	n	y (BBS #: 619-452-6329 CompuServe: GO_PACDATA)	619-552-0880 (M), 619-587-4690 (TS)
UTILITIES Central Point Software Inc. PC Tools, Version 7.1	N/A*	N/A*	N/A*	N/A*	503-690-8080 (M) 800-445-4208 (TS)
Symantec Corp. Peter Norton Group The Norton Desktop for Windows 1.0	y	n	n	n	800-441-7234 (M), 310-449-4900 (TS)

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The Norton Utilities	y 6.01	n	n	n	310-449-4900 (TS)
VGA DRIVERS Ahead Systems Inc.	n	y	n	y (BBS #: 510-623-0961)	510-623-900
Appian Technology Inc.	y	y	n	y (BBS #: 206-649-5363)	408-730-5400 (M), 206-649-8086 (TS)
ATI Technologies Inc. Ultra Series	y	y	n	y (BBS #: 416-756-4591)	416-756-0718 (M), 416-756-0711 (TS)
VGAWonder XL Series	y	y	y (800x600 x16)	y (BBS #: 416-756-4591)	416-756-0718 (M), 416-756-0711 (TS)
Boca Research Inc.	n	y	n	y (BBS #: 407-241-1601)	407-997-6227 (M), 407-241-8088 (TS)
Compaq Computer Corp.	y	y	y (Advanced VGA)	n	713-370-0670 (M), 800-345-1518 (TS)
Diamond Computer Systems Inc.	y	y	n	y (BBS #: 408-730-1100)	408-736-2000
Everex Systems Inc.	y	n	n	y (BBS #: 510-226-9694)	800-821-0806 (M), 510-498-1115 (TS)

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Focus Information Systems	n	y*	n	y (BBS #: 510-657-9451)	510-657-2845 (M), 510-657-4586 (TS)
Headland Technology/ Video Seven Inc.	y	y	y	y (BBS #: 510-656-0503)	800-238-0101 (M), 800-248-1850 (TS)
Hercules Computer Technology Inc.	n	y	y	n	510-540-6000 (M), 510-540-0749 (TS)
Matrox Electronic Systems Ltd.	y	y	n	y (BBS #: 514-685-6008)	514-685-2630 (M), 800-462-8769 (TS)
Micro-Labs Inc.	y	y	n	y (BBS #: 312-648-1981)	214-702-8654
Micron Technology Inc.	n	y	n	y (BBS #: 208-368-2130)	208-368-4400 (M), 800-642-7661 (TS)
National Design Inc.	y	y	n	y (BBS #: 512-343-5054)	512-343-5055 (M), 800-253-8831 (TS)
NEC Technologies Inc. Graphics Div.	n	n*	n	y (BBS #: 708-860-2602)	708-860-9500 (M), 800-388-8888 ext.43 (TS)
Nth Graphics	y	y*	n	y	512-832-1944 (M),

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				(BBS #: 512-832-1962)	800-624-7552 (TS)
Number Nine Computer Corp.	y	y	y*	y (BBS #: 617-862-7502)	617-674-9
Orchid Technology Inc.	y	n	n	y (BBS #: 510-683-0327)	510-683-0300 (M), 510-685-0540 (TS)
Panacea Inc.	y	y	n	y* (BBS #: 603-432-5193)	603-437-5022
Sigma Designs Inc.	y	y*	n	y (BBS #: 510-770-0111; CompuServe forum: DTP Vendor's Forum (GO_DTPVEN)	510-770-100
STB Systems Inc.	y*	y	n	y (BBS #: 214-437-9615)	214-234-8750 (M), 800-234-4334 (TS)
Tecmar	y	n	n	y (BBS #: 216-349-0853)	216-349-0600 (M), 800-344-4463 (TS)
Texas Instruments Inc.	n	y	y	n	713-778-6592 (M), 800-232-3200 (TS)

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Trident Microsystems Inc.	y	n	n	y (BBS #: 415-691-1016)	415-691-9211
Truevision Inc. Truevision 1024/32	y*	y	n	n	317-841-332
Bravado, VideoVGA	y	y	n	n	
Targa Plus	n	y*	n	n	
Tseng Laboratories Inc.	y	y	n	y (CompuServe forum: WINADV FORUM)	215-968-502
United Solutions Inc.	y	y	n	n	310-645-3232 (M), 800-365-4995 (TS)
ViewSonic	n	y	n	y (BBS #: 213-944-2195)	213-946-0711 (M), 213-944-3041 (TS)
WellCom Corp.	y*	y	n	n	408-441-6499 (M), 408-441-4482 (TS)

Comments

Mouse Driver, Version 8.1, is free to 8.0 owners and \$25 for those with previous mouse versions. Earlier versions are also compatible with Win 3.1.

BubbleJet 10e, 130e, 300, and 330, LBP-8III, and LPB-4 are included in Win 3.1.

Citizen's standard drivers, 120D, 180D, 200GX, 200GX/15, GSX- 130, 140, 140+, and 145, HSP- 500 and 550, and PN4 are all supported in Win 3.1. A professional-level driver is also available from the printer manufacturer.

Upgraded printer drivers for PostScript laser printers (including printer servers), DEClaser 1150, 2150, 2250, and 3250, LN03R ScriptPrinter, Turbo PrintServer 20, PrintServer 20 Plus and 40 Plus, and Colormate PS, are bundled with Win 3.1.

Drivers for remaining laser printers (DEClaser 1100, 2100, 2200, and 3200), dot matrix printers (LA70, 75, 75 Plus, and 324), and ink jet printers (DECjet 1000, 2000, and LJ250/252), are from DEC and Microsoft's Driver Library.

Drivers for the Ektaplus, Diconix, and thermal printers (XL7700, S6600, and P6600) are available from Kodak.

Epson printers supported by Win 3.1 include DFX-5000, epl-6000, -7000, -7500, EX-800, -1000, FX-80, -80+, -85, -86e, -100, -100+, -185, -286, -286e, -850, -1050, GQ-3500, JX-80, L-750, -1000, LQ-500, -570, -800, -850, -870, -950, -1000, -1050, -1070, LQ-1170, -1500, -2500, -2550, LX-80, -86, -800, -810, MX-80, -80 F/T, -100, RX-80, -80 F/T, -80 F/T+, -100, -100+, SQ-2000, -2500, and T-750 and -1000.

Windows 3.1 will support Epson's ESC/P2 printer control language, which includes support for a compressed raster graphics mode and provides high-quality output of scalable TrueType fonts.

Upgraded Hewlett-Packard drivers for its DeskJet, DeskJet 500, DeskJet Plus, LaserJet, LaserJet PostScript, DraftPro, DraftMaster, ThinkJet,

ColorPro, and 7400 and 7500 series, PaintJet and PaintJet XL printers are bundled with Win 3.1.

The DeskJet 500C printer ships with a Win 3.1-compatible driver. Upgraded drivers for the HP QuietJet will be available on Microsoft's Driver Library, which will ship after Win 3.1.

All Lexmark printer drivers will be included in the Win. 3.1 package, with the exception of IBM Laser-Printer 4029 (PPDS mode), Personal Printer Series II 2380/81 and 2390/91, and Proprinter 24P 4212. These are available from Lexmark's tech support line.

Mannesmann Tally printer drivers are included in the international version of Microsoft Windows 3.1. Within the U.S., Mannesmann relies on major printer emulations such as Epson, IBM, and Hewlett-Packard.

NEC upgraded drivers bundled with Win 3.1 include Silentwriter2, Models 90, 990, 290, LC890, and LC890XL, Colormate PS/40 and 80. Pinwriters P6/P7, CP6/CP7, P5200/P5300, P9XL, P5XL, and P2200 are supported in 3.1.

Support for the new Silentwriter 95 is added by installing the Windows PostScript Description (WPD) file included with the printer.

Minidrivers for Pinwriters P2200XE, P3200, P3300, P6200, P6300, and P9300 are available from NEC and Microsoft on CompuServe, GENie, and Microsoft's PSS (BBS #: 206-637-9009).

Microsoft migrated 3.0 drivers for models Microline 93, 192, 192+, 192, 193, 193+, 193, 391, 390, Laserline 6, 391, and 393 (color and B/W). New drivers shipping with 3.1 include ML 320 E/I, 320 Std, 321 E/I, 321 Std, 380, 390+, 391+, 393C (Color), and 393+, OL-400, -800, and -840. Low-end and phased-out drivers such as the ML 292 and ML 182 will not have 3.1 drivers; these can use the target emulation driver. Some drivers are available on CompuServe.

Packard Bell does not produce its own printer drivers. Instead, its laser printers use HP LaserJet Series II printer drivers, and its dot matrix printers use Epson LQ-850 printer drivers.

Panasonic's printer drivers for its KX-P1123, P1124, P1180, P1624, P1695, P4420, P4450, P4450i, and P4455 printers will all be bundled with Win 3.1.

QMS's printer drivers that have been migrated from Win 3.0 to 3.1—but are not upgrades—include ColorScript 100, PS-800, -800 Plus, -810, -820, and -2200. Drivers available from QMS include PS-410,

-810, -815, -825, and -1500.

Tektronix drivers for its Phaser II PX, II PXi and III PXi and a SuperPrint driver for its two older, non-PostScript models are included with Win 3.1.

* Only older models require new driver versions.

Texas Instruments' microLaser printer driver ships with Win 3.1.

Although Varityper's VT-600 driver is bundled with Win 3.1, upgraded driver versions can be obtained through the mail or by downloading them from the vendor.

Sound Blaster's drivers are bundled with Win 3.1. They work with Multimedia Extensions.

Upgraded drivers for Sound Blaster Pro are available from Creative Labs.

Upgraded drivers for the Multimedia Upgrade Kit are available from Creative Labs.

New drivers for Pro AudioSpectrum (MVAUX.DRV, MVFM.DRV, MVMIDI.DRV, MVWAVE.ZIP, MMMIXER.DLL, and MVMIXER.DRV) and Thunder Board (ADLIB.DRV and TBWAVE.DRV) are available upon request.

Roland's sound cards, the LAPC-1 and the SCC-1, and its interface card, MPU-IPC, use one driver for Windows (MP-401.DRV) that is distributed by Microsoft.

MultiSound's driver, MULTISND.DRV, is compatible with Win 3.1 and works with Multimedia Extensions. * This is a new product. Its current driver will be packaged with Win 3.1.

Adobe says TrueType has no effect on its fonts' performance.

Adobe says ATM is compatible with TrueType.

Bitstream says TrueType and FaceLift can coexist peacefully. FaceLift also works with Bitstream

Speedo and PostScript Type 1. Version 1.2 works with Win 3.1 (with a fixable bug), and FaceLift, Version 1.0, will not work with Win 3.1.

While the current version does not utilize all of Win 3.1's latest features, it is fully compatible. Earlier versions also work, but they won't use many of 3.1's features.

The Super Cartridge 1 International Edition, Super Cartridge 2, Super Cartridge 3 Creative Collection and Professional Collection, and Super Cartridge DeskJet products work with Windows-standard Hewlett-Packard printer drivers. All work with Win 3.1.

MoreFonts has on-the-fly-type scaling and a special-effects generator. User must choose between MoreFonts or TrueType as a scaling engine. These products have two components: typefaces and a conversion utility. The latter can convert MoreFont format fonts to Adobe Type 1, Atech, Agfa/Intellifont, TrueType, or URX formats.

PacificPage II and PE are PostScript-language emulation cartridges that use the Apple LaserWriter II NTX as their specified output device in Win 3.1. PacificPage II includes a 2MB board.

These non-PostScript font packages (Complete being scalable, FontBank programmable, and 25 in One! using bitmaps) use one Win 3.1--compatible driver that ships with each package.

N/A*--Not applicable: Central Point would not comment on compatibility.

This product will run faster and smarter with Win 3.1.

Compatibility testing for earlier versions was not complete at the time of our survey.

Ahead Systems has four video boards (VGA Wizard Deluxe 5.0 and 3270, VGA Eagle, and an XGA board). Drivers for these (WIN16.DRV, WIN256.DRV, and VDDVGA31.386) support a range of resolutions and color depths from standard VGA through 1,024-by-768 by 256 colors. Upgraded display and virtual device drivers are available directly from Ahead.

Appian offers 12 drivers, supporting all resolutions. Technical support must be contacted before downloading new drivers. There is no charge if the product is still under warranty.

Series has three boards (8514, Ultra, and Vantage) and seven drivers (Ultra640, Ultra800, Ultra, Ultrabig, Ultrags, Ultra128, 1280GS). Upgrades are available in two files: Ultra31.LZH and GS31.LZH.

ATI has seven drivers for the ATI 28800 chip (modes 54h, 55h, 62h, 63h, 64h, 72h, and 73h). They handle a range of resolutions and color depths from standard VGA through 1,024-by-768 by 256 colors. A file containing four upgraded 3.1 drivers can be downloaded.

Boca's VGA boards use NCR, ACMOS, and Tseng chip sets to display a full range of resolutions and color depths through 1,024-by-768 by 256 colors. Boca's SuperX VGA supports 32,768 colors and 800-by-600 and 640-by-480 modes.

(3.1-compatible drivers should be ready soon after 3.1's release.)

Compaq has two sets of drivers: Advanced VGA, which supports up to 800-by-600 by 16 colors and 640-by-480 by 256 colors, and Integrated VGA, which supports 640-by-480 by 16 colors. Win 3.1 will include a driver for the Advanced set.

Two boards (Speedstar and Stealth, working with Tseng ET-4000 and S3 chip sets, respectively) work with 16 drivers supporting resolutions ranging from standard VGA through 1,024-by-768 by 256 colors and 1,280-by-960 by 16 colors. New 3.1 drivers are downloadable.

Everex has nine drivers supporting resolutions and color depths from standard VGA through 1,280-by-1,024 by 32,000 colors. All but one work with the Tseng Labs ET-4000 chip set. The remaining driver

uses Acmos AVGA 1.

Focus 2 the Max VGA 400 board uses Tseng's ET-4000 chip set and works with 12 drivers, offering resolutions and color depths ranging from standard VGA through 1,024-by-768 by 256 colors.

* Within one month of 3.1's release.

One suite of drivers works with all of Video Seven's boards, which offer a range of resolutions and color depths from standard VGA through 1,024-by-768 by 256 colors.

Four Hercules cards (Graphic Station Card, Graphics Station GOLD, Graphics Station MC, and SuperStation 3D) are supported by the new 3.1 TIGA driver in resolutions ranging from 640-by-480 to 1,280-by-1,024.

Although Win 3.1 will ship with a Hercules-compatible 256-color driver, Win 3.1 drivers for 32,768 colors and 16.7 million colors will be available from Hercules for \$25.

Matrox has ten drivers, supporting resolutions and color depths from 4-bit 640-by-480 through 24-bit 1,600-by-1,200.

Micro-Labs' four Win 3.1-compatible boards (Ultimate VGA, VGA Plus, VGA/HiColor, and HiColor/65K) work with drivers supporting a range of resolutions and color depths from standard VGA through 1,024-by-768 by 256 colors and 1,280-by-1,024 by 16 colors. Drivers work with Tseng's ET-4000. BBS file: WIN3.1 UPDATE under Files/Product Update/Windows 3.1 Update.

The Ultra VRAM Super VGA Graphics card works with six drivers that support 640-by-480, 800-by-600, or 1,024-by-768 (16 colors) and 640-by-480, 800-by-600, and 1,024-by-768 (256 colors). It is compatible with the Chips and Technologies 82C453 chip set.

NDI Volante Series drivers support TMS 34020 (640-by-480 by 24 colors, 800-by-600 by 24 colors, 1,024-by-768 by 8 or 24 colors, 1,280-by-1,024 by 16 colors, and 1,600-by-1,280 by 8 colors) and S3 (640-by-480 by 8 colors to 1,024-by-768 by 8 colors). Upgrades up to 16.7 million colors are available on the BBS.

NEC's current driver for its MultiSync Graphics Engine runs Windows in 800-by-600 or 1,024-by-768 with 16 or 256 colors, depending on system configuration.

* When the anticipated downloadable upgrade is available, the filename will be MGEWN31.EXE.

Engine 124 supports 640-by-480 by 32,768, 256,

and 16 colors, 800-by-600 by 32,768, 256, and 16 colors, 1,024-by-768 by 16 and 256 colors, and 1,280-by-1,024 by 16 colors. NthTV True-Color supports all Engine 124 resolutions plus 640-by-480 by 32,768, 256, and 16 colors (all NTSC).

Nth Engine/150 Display Controller uses Chips and Technologies' 480 chip set and supports 1,024-by-768 by 256 and 16 colors, and 1,280-by-1,024 by 256 and 16 colors. * Upgrades, available from Nth Graphics, reflect changes in installation procedures only.

* Number Nine provides Texas Instruments Graphics Architecture (TIGA) drivers with its boards. (See Texas Instruments below.) Supported resolutions run from 512-by-480 up to 1,280-by-1,024.

Orchid's Win 3.x driver supports resolutions and color depths of 640-by-480 by 256 and 32,768 colors, 800-by-600 by 16 and 256 colors, 1,024-by-768 by 16 and 256 colors, and 1,280-by-960 by 16 colors.

The Win 3.1--compatible WinSpeed driver was released in January 1992. It costs \$79.

* A new setup utility is now available for current WinSpeed users to download.

The driver supports resolutions through 640-by-480 by 256 colors, 800-by-600 by 256 colors, and 1,024-by-768 by 256 colors, and is compatible with Tseng's ET-4000 chip set and Trident, Paradise, Video Seven, and ATI VGA boards.

The Sigma VGA Legend board's seven Tseng ET-4000-compatible drivers support standard VGA through 1,024-by-768 by 256 colors. Current drivers do not support 3.1's newest display features.

* Available within 30 days of Win 3.1's release.

STB's PowerGraph Ergo-VGA board's drivers work with Tseng ET-4000 and support all resolutions from 640-by-480 by 16 and 256 colors up through 1,280-by-1,024 by 16 colors. Contact tech support before downloading new drivers.

STB supports 3.1 with drivers for the following chip sets: Tseng ET-4000 for the PowerGraph Ergo, Chips and Technologies' 450 and 480, and S3 86C911 for the Wind/X GUI accelerator.

* With minor changes to filenames.

Tecmar's drivers support resolutions of 640-by-480 by 16 colors, 640-by-480 by 256 colors, and 1,024-by-768 by 16 colors.

Texas Instruments' Win 3.1 driver supports resolutions from 640-by-480 through 4,096-by-

4,096, in monochrome or 16 through 256 colors.

A supplemental disk from Microsoft includes a full-featured TIGA driver that supports up to 16.8 million colors.

Trident drivers support all resolutions from standard VGA through 1,024-by-768 by 256 colors. It also has special large-font drivers available for the higher resolutions.

Truevision's 1024/32 board uses Tseng-supplied drivers: one for accelerated mode and the other for the Tseng Labs ET-4000 chip set's VGA mode. It supports up to 1,024-by-768 by 16.7 million colors. It works when TrueType is disabled in the Control Panel.

VideoVGA and Bravado also use Tseng Labs drivers and support resolutions from standard VGA through 1,024-by-768 by 256 colors.

* Setup is incompatible, but an upgrade is expected within 30 days of 3.1's release.

Truevision's Targa Plus driver supports resolutions through 1,024-by-768 by 16.7 million colors.

* An upgrade should also be available by mail from Truevision approximately 30 days after Win 3.1 ships.

Tseng supplies VGA chips to a number of OEMs offering both computer and add-in VGA boards. The company also supplies generic drivers that can be downloaded, free of charge, on CompuServe.

United has drivers for the Oak 067 chip set (640-by-480 by 256 colors, 800-by-600 by 16 or 256 colors, 1,024-by-768 by 16 colors), Trident 9000 (640-by-480 by 256 colors, 800-by-600 by 16 or 256 colors, 1,024-by-768 by 16 colors), Acmos AVGA 1 (800-by-600 by 6 colors), and Tseng ET-4000 chip set (640-by-480 by up to 16.7 million colors, 800-by-600 by up to 16.7 million colors, 1,024-by-768 by 16 or 256 colors).

ViewSonic's PerfectView VGA board's drivers support resolutions of 640-by-480 by 16 or 256 colors, 800-by-600 by 16 or 256 colors, and 1,024-by-768 by 16 or 256 colors. The drivers support Tseng Labs' ET-4000 chip.

Wellcom's Well VGA 80 board's drivers support resolutions from 640-by-480 by 16 colors up to 1,024-by-768 by 256 colors and 1,280-by-1,024 by 16 colors. * Install instructions for the current drivers will have to be changed.