

ARK1000PV/VL WINDOWS ACCELERATOR MANUAL

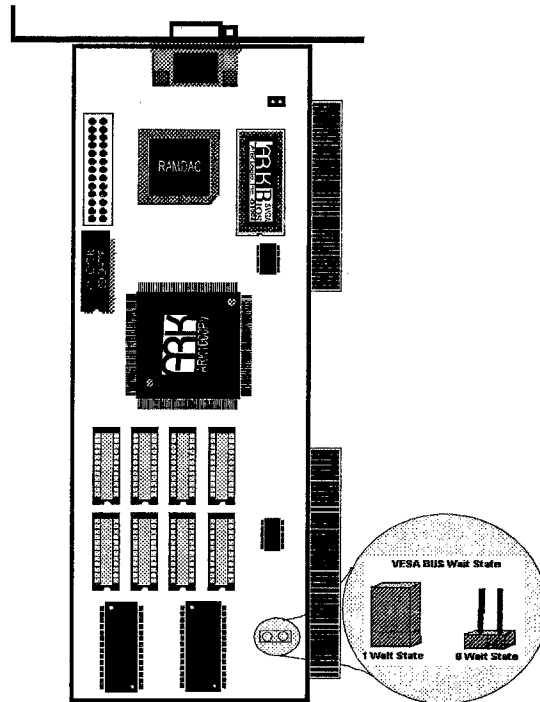
1.2 Features

The **ARK1000PV/VL** Card for Windows® is a Super VGA Graphics Display Adapter designed for users of Microsoft Windows® and CAD applications. The card incorporates hardware features such as bit-block-transfer hardware cursor and line-draw capabilities that accelerate the performance of Windows® and windowing programs by more than 30 times that of standard VGA. Common Windows® operations such as opening, closing, scrolling and resizing of a graphical window are instantaneous too. Even non-Windows applications that use a hardware cursor, like AutoCAD® on DOS®, will realize increased performance.

The card brings the functions and features of the latest Super VGA standards to your IBM PC (with PCI Local Bus for ARK1000PV or with VESA Local Bus for ARK1000VL) compatible systems. It can provide accelerated, high resolution graphics displays with a maximum of 16M (16,777,216) colors. To further enhance the performance, the **ARK1000PV/VL** Card is also bundled with software utilities and drivers that optimize its state-of-the-art Super VGA capabilities for your software applications.

- ◆ 1M byte of on-board memory; 1M byte memory option.
- ◆ Systems compatibility:
 - IBM PC/AT and compatibles
 - 32-Bit PCI Local Bus for ARK1000PV
 - 32-Bit VESA Local Bus for ARK1000VL
- ◆ Extended graphics resolutions up to 1280x1024x256 (NI) color with 110MHZ RAMDAC (2M byte option) or 1280x1024x256 (I) color with 80MHZ RAMDAC.
- ◆ Virtual desktop with real-time pen and zoom, size up to 1600x1200.
- ◆ Supports extended text modes : 132 by 50, 132 by 44, 132 by 34, 132 by 28 and 132 by 25 columns.
- ◆ Provides enhanced display drivers for DOS-based applications: AutoCAD®, AutoShade, Lotus 1-2-3 and Symphony, PCAD, VersaCAD, Microsoft Word and WordPerfect.
- ◆ Supports the simultaneous use of two monitors; co-exists with either an MDA adapter or a CGA adapter.

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ARK1000VL
(Jumper JP1 - default 1 Wait State.)

Note: 1. Upgrading display memory must use the same memory speed with already on board memory. For example, on board memory is NEC 424260-70 model, it indicate the memory speed is 70 ns, so you should add any 70ns brand DRAM accordingly.

After plugging in the chips, you will be able to run very high resolution modes such as 1280x1024x256 colors, 1024x768x32k/64k and 800x600x16M colors.

2. Jumper Setting - This is a 32-Bit PCI bus graphics accelerator card with 2MB of memory. It has one jumper(JP1), that is for the highest performance and compatibility.

When installed, the 0 Wait State is disable. You may try to remove this jumper to enable the 0 Wait State . Some system do not support 0 Wait State operation. If You experience system booting problem, or data loss to the screen, plug jumper JP1 to disable 0 Wait State. The default configuration is with JP1 installed.