

# Paradise VGA Plus 16™ Card



## **Outstanding Performance At An Affordable Price.**

The Paradise VGA Plus 16™ sets a new standard in VGA price/performance. With its 16 bit bus and BIOS interface, it is designed specifically to handle heavy corporate workloads, while offering faster performance and higher resolution than the IBM\* VGA card.

The Paradise VGA Plus 16 Card is 100% hardware compatible with IBM's PS/2 VGA design. But it reaches beyond IBM's card performance, offering 256 on-screen colors out of a 256K color palette at 640 x 400 resolution, providing even crisper detail. It also features a proprietary Paradise video controller that operates up to 400% faster than IBM.

If you want high-performance video at an affordable price, the Paradise VGA Plus 16 Card is the one to order.

## **The Paradise VGA Plus 16 Card Features.**

- ▲ 100% VGA compatible—Hardware (register) Software (BIOS)
- ▲ Up to 400% faster than IBM VGA Display Adaptor
- ▲ Enhanced resolution  
800 x 600 in 16 colors out of a palette of 256K  
132 column text, 65% more text on-screen on both PS/2 and multifrequency monitors
- ▲ Enhanced color  
640 x 400 in 256 colors out of a palette of 256K
- ▲ Three year warranty
- ▲ Three year compatibility guarantee
- ▲ 16 bit data bus
- ▲ AutoSense™ to enable 16 bit BIOS

## **A 400% Performance Boost.**

Paradise's VGA chip features a memory arbitration technique and a choice of 8 or 16 bit BIOS interface that allows the CPU to draw images up to 400% faster than

IBM's VGA in 16 bit mode. It's also loaded with a full 256K of memory providing high-resolution, high-performance video display.

## **100% VGA & Pre-VGA Compatibility.**

The Paradise VGA Plus 16 Card delivers 100% VGA hardware compatibility in all modes as well as complete downward compatibility with all pre-VGA graphics standards such as EGA, CGA, MDA, Hercules\* and MCGA. It is designed to be used with the IBM PC/XT/AT\* (including 80286, 80386), PS/2 Models 25, 30 and compatibles.

## **A Compatibility Guarantee, Another Paradise First.**

Paradise guarantees that if any VGA compatible application software fails to run on an IBM PC/XT/AT with the Paradise VGA Plus 16 Card, but will run on the same IBM PC/XT/AT with an IBM PS/2 Display Adapter (without any additional video controller cards), Paradise will replace the card with one that runs the software or give you your money back.

## **256 On-Screen Colors In Higher Resolution.**

The Paradise VGA Plus 16 Card displays 256 colors out of a 256K color palette at 640 x 400, and displays 16 on-screen colors at 800 x 600.

## **132 Column Mode.**

The Paradise VGA Plus 16 Card also features an enhanced 132 column display mode that allows you to increase the number of on-screen columns from 80 to 132, giving you the capability of displaying over 65% more data, which is particularly helpful in word processing, desktop publishing, database and spreadsheet applications. This feature works on both PS/2 and multifrequency type monitors.



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## Paradise VGA Plus 16 Card Specifications

### AutoSense for a 16 Bit BIOS Interface.

In addition to a 16 bit wide video memory interface the Paradise VGA Plus 16 Card can present a 16 bit wide video BIOS data path to IBM's AT and many AT compatible systems. This means that the software instructions that actually draw the text and graphic images on screen in most applications can operate more than twice as fast as on an 8 bit VGA board. But a 16 bit BIOS interface does not come easily. To make it work, Paradise had to invent AutoSense, a sophisticated hardware and software system that tests and automatically enables the 16 bit BIOS for easy-to-use, trouble-free operation.

### The Personal Computer Video Company.

With the Paradise VGA Plus 16 Card, Paradise once again demonstrates its commitment to push the quality of the IBM graphics standard to new levels of performance and convenience. As the world's largest supplier of add-in video controller boards and chips, Paradise is committed to supporting its customers with advanced engineering, technical support and a trend setting guarantee.

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### Compatibility:

- ▲ Designed to work with IBM PC/XT/AT (including 80286, 80386), PS/2 Models 25, 30 and compatibles.

### Physical Characteristics:

- ▲ Fits IBM PC/XT/AT expansion slots
- ▲ Height: 3.9"
- ▲ Length: 8.9"
- ▲ Weight: 6.5 oz.

### Connector:

- ▲ 15 pin connector for all supported monitor types
- ▲ Same edge connector and feature connector as the IBM PS/2 Display Adapter.

### Environmental Limitations:

- ▲ Ambient temperature:
  - Storage: -40° to +62°C
  - Operating: +4° to +55°C
- ▲ Ambient relative humidity:
  - Storage: 5% to 95% RH
  - Operating: 8% to 80% RH

### Electrical:

- ▲ Voltage +5V (±5%)
- ▲ Current demand: nominal 0.9A (5V)
- ▲ Average power consumption: 5W
- ▲ FCC class B certification

### Warranty:

- ▲ The Paradise VGA Plus 16 Card carries a 3 year warranty.
- ▲ Three year compatibility guarantee.



### Software Support:

- ▲ Paradise VGA Plus 16 Card includes support for the following software in 640 x 400 with 256 colors.
  - Microsoft\* Windows 2.0
- ▲ Paradise VGA Plus 16 Card includes support for the following software in 800 x 600 with 16 colors.
  - Microsoft Windows 2.0
  - GEM\*
  - AutoCAD\*
  - CADvance\*
  - Ventura Publisher\*
  - Framework\* II
- ▲ Paradise VGA Plus 16 Card supports the following software in 132 column mode:
  - Framework II
  - WordPerfect 4.2\*
  - WordStar\*

### Paradise VGA Plus 16 Card Supports the Following:

Mode:	Resolution:	Colors:	Palette:	Monitors:†
Paradise	800 x 600	Monochrome	N/A	4
VGA Plus 16	800 x 600	16	256K	4
	640 x 400	256	256K	1-4
	132 col x 43 row			1-4
	132 col x 25 row			1-4
Standard VGA	640 x 480	16	256K	1-4
	640 x 480	2	256K	1-4
	320 x 200	256	256K	1-4
	320 x 200	64 shades of gray	N/A	1-4
EGA	640 x 350	16	256K	1-4
	640 x 200	16	256K	1-4
	320 x 200	16	256K	1-4
CGA	640 x 200	2	256K	1-4
	320 x 200	4	256K	1-4
MDA	80 col x 25 row			1-4
Hercules	720 x 348			1-4

†Monitors: 1-IBM 8503, 2-IBM 8512, 3-IBM 8513, 4-Multifrequency.

\*Trademarks: Paradise VGA Plus 16, AutoSense (patent pending)—Paradise Systems, Inc.; PC/XT/AT, PS/2—International Business Machines Corp.; Hercules—Hercules Computer Technology; Microsoft—Microsoft Corporation; GEM—Digital Research, Inc.; AutoCAD—Autodesk, Inc.; CADvance—CalComp Group, Sanders Assoc., Inc.; Ventura Publisher—Ventura Software Inc.; Framework—Ashton-Tate; WordStar—MicroPro International Corporation; WordPerfect—WordPerfect Corporation; Registered Trademarks: Paradise Systems—Paradise Systems, Inc.; IBM—International Business Machines Corp.

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