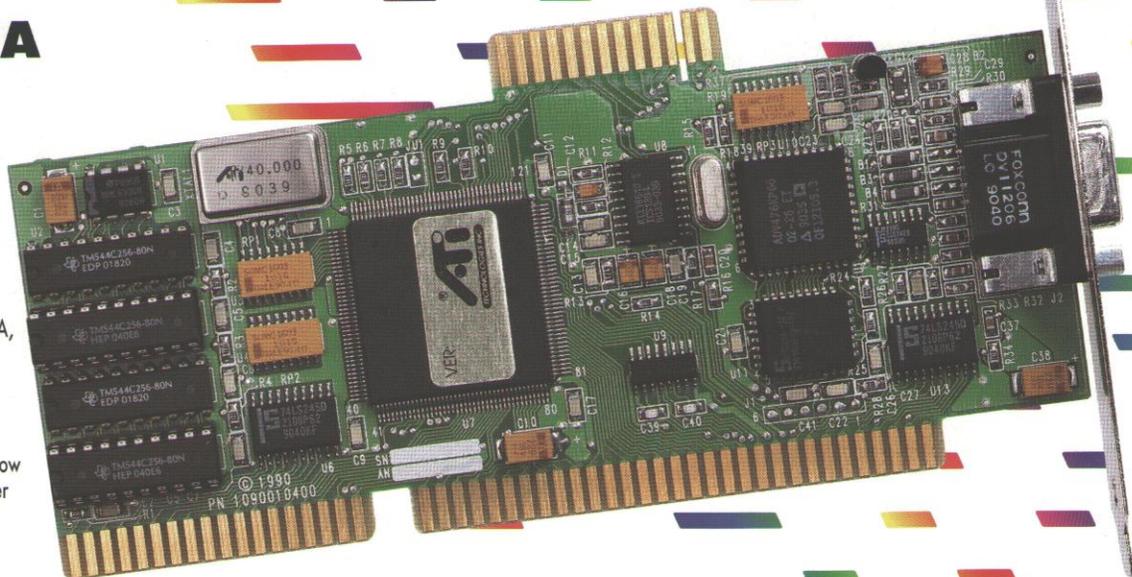# VGA INTEGRA™

The Enhanced VGA

VGA INTEGRA

When it comes to super VGA performance and value, nothing beats the **VGA INTEGRA**. It offers all the important features of expensive graphics cards, like 1024x768 resolution, high 72 Hz refresh rates and 16-bit speed, but without the high price.

Of course, the **VGA INTEGRA** also delivers everything you'd expect from an ATI card. It offers 100% register compatibility in all modes – VGA, EGA, CGA, Hercules and MDA, to ensure both backward and future software compatibility. Then there's our switchless design for easy installation. Plus a two year limited warranty.

With the **VGA INTEGRA**, all PC users can now afford to take full advantage of their computer system's graphics power.

Features:

VGA INTEGRA: 512K video memory.

Enhanced Graphics Resolution: The **VGA INTEGRA** supports enhanced VGA resolutions of: 1024x768 in 16 colors (non-interlaced and interlaced), 800x600 in 256 colors and 640x480 in 256 colors.

Fast 16-Bit Design: 16-bit design and fast page mode memory provide exceptionally fast performance to take full advantage of today's fast computers.

High 72 Hz Refresh Rate: The **VGA INTEGRA** supports the VESA recommended 72 Hz refresh rate at 800x600 resolution eliminating flicker to improve the video display. It also supports 70 Hz and 60 Hz refresh rates.

100% Register Compatible: Register-level compatible in ALL modes: VGA*, EGA*, CGA*, Hercules* and MDA* to ensure both backward and future software compatibility.

132 Column Text: Text modes of 132 columns by 25 and 44 rows for more on-screen text.

Extensive Driver Support: Drivers supplied include: Windows 3.X*, OS/2 Presentation Manager*, AutoCAD* Display List, Ventura*, Lotus* and more. Supported by over 100 software packages.

Utilities: Menu driven software utilities are provided to enhance the performance of the **VGA INTEGRA**, as well as change configurations.

Switchless Installation: Automatic installation eliminates all user selectable switches and jumpers for fast and simple set up. Automatically configures for 8 or 16-bit bus.

SOFTWARE		MONITORS		
		Analog Monitors		
Modes/ Resolution	Colors/ Palette	VGA Analog	IBM 8514	MultiSync Analog
1024x768 [1]	16/256K		■ [2]	■
800x600	256/256K		■ [2]	■
640x480	256/256K	■	■	■
VGA	16/256K	■	■	■
EGA	16/64	■	■	■
CGA	B/W 4/16	■	■	■
Hercules	Mono Attributes	■	■	■
MDA	Mono Attributes	■	■	■
Lines in 132 Columns		25/44	25/44	25/44

1. 1024x768 not supported on the MultiSync 2A* and other dual mode monitors.
2. Interlaced.

Specifications:

System Requirements: IBM PC/XT/AT, PS/2* Model 30, or compatible systems.

Bus: IBM PC or AT standard 8 or 16-bit slots.

Video Display Buffer: 512K video memory.

Standard Video Display Modes: All VGA, EGA, CGA, Hercules and MDA modes.

ATI Enhanced Modes: 1024x768 in 16 colors, 800x600 in 256 colors, 640x480 in 256 colors. See Software/Monitor Compatibility Chart for monitor support.

Sync Signals:

Horizontal	Vertical	Resolution
48.4 kHz	60 Hz	1024x768/60 Hz non-interlaced
48.0 kHz	72 Hz	800x600/72 Hz non-interlaced
44.2 kHz	70 Hz	800x600/70 Hz non-interlaced
37.9 kHz	60 Hz	800x600/60 Hz non-interlaced

Horizontal	Vertical	Resolution
37.7 kHz	72 Hz	MultiSync/Analog monitors (640x480/72 Hz)
35.5 kHz	87 Hz	MultiSync/8514 monitors (1024x768 interlaced)
35.0 kHz	56 Hz	MultiSync monitors (800x600 non-interlaced)
33.8 kHz	96 Hz	8514 monitors (800x600 interlaced)
31.5 kHz	60 Hz	MultiSync/Analog monitors (640x480)

Connectors: *Analog Video Connector:* 15 pin D shell (Female) IBM standard. *Video Feature Connector:* 13 x 2 edge connector located at the top of the **VGA INTEGRA**.

Monitor Compatibility: IBM PS/2 85XX analog monitors. MultiSync and other monitors compatible with above standards.

Dimensions: 2.75" (W) x 6.25" (D).

Power: +5V +/- 5% @ 500mA typical, +12V @ 16mA typical, -12V @ 12mA typical.

MTBF: 100,000 hours.

Warranty: Two years limited waranty.

ATI Technologies Inc.
3761 Victoria Park Avenue
Scarborough, Ontario
Canada M1W 3S2
User Support: (416) 756-0711
Offices: (416) 756-0718
Fax: (416) 756-0720

ATI® TECHNOLOGIES INC.

Technology you can Trust.
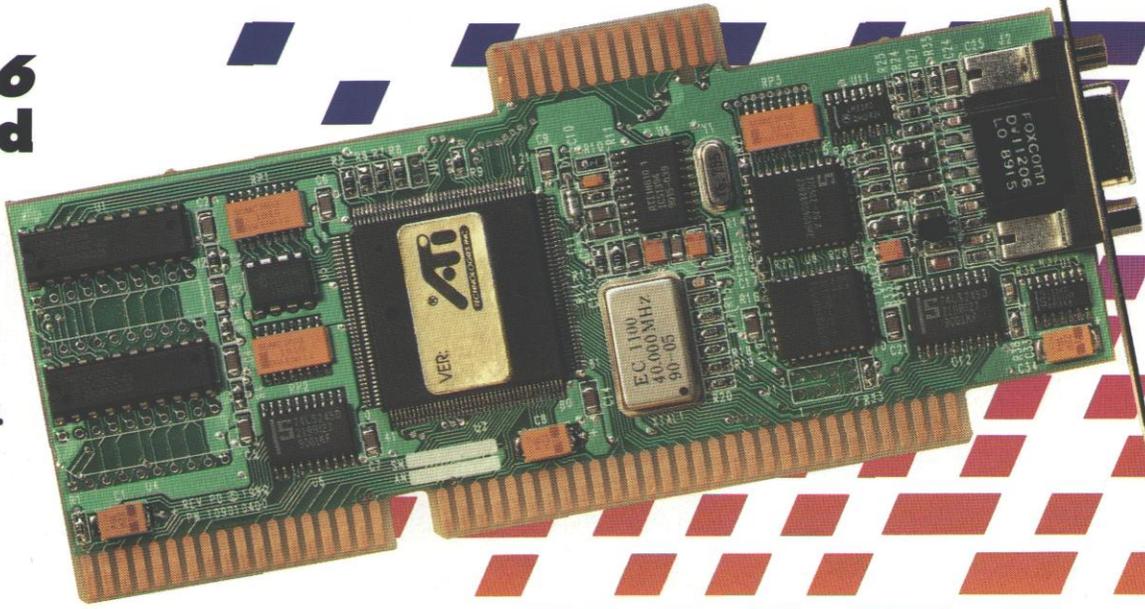
VGA BASIC 16

The Economical 16-Bit VGA

VGABASIC-16 Graphics Card

The VGABASIC-16 represents incredible value in entry level VGA cards. It offers true 16-bit speed at a price that even the most budget-conscious PC graphics user can appreciate. In fact, the VGABASIC-16 is the lowest priced name brand 16-bit VGA card on the market.

High performance, without the "frills". Although we've done away with the expensive extras, the VGABASIC-16 still has everything you expect from ATI's VGAWONDER award-winning technology. Like 100% register-level compatibility in all modes – VGA, EGA, CGA, Hercules and MDA. Switchless design for easy installation. Plus a full two year warranty.

With the new VGABASIC-16, virtually all PC users can afford to move up to 16-bit VGA graphics.

Features:

Graphics Resolution
Supports VGA with up to 640x480 resolution in 16 colors. Plus, other PC graphics resolutions such as EGA, CGA, Hercules, and MDA.

Superior Speed
16-bit design and page mode memory provide faster graphics for today's 80286/386/486 computers. Works in 8-bit slots as well.

100% Register Compatible
Register compatible in ALL modes: VGA, EGA, CGA, Hercules, and MDA.

Specifications:

System Requirements:
IBM PC/XT/AT/386/486, PS/2 Model 30, or compatible systems.

Bus:
IBM PC or AT, 8 or 16-bit slots.

Video Display Buffer:
256K video memory.

Standard Video Display Modes:
All VGA, EGA, CGA, Hercules, and MDA modes.

Sync Signals:

Horizontal	Vertical	
31.5kHz	60Hz	– Multisync/Analog monitors (640x480)

ATI Custom Chip Design
Based on the same proprietary ATI/VGA chip found in the award winning VGAWONDER for reliable performance and ultimate speed.

Compact Design
Credit card size fits in any IBM PC expansion slot. Features low power consumption and reduced components for maximum reliability.

Switchless Installation
Switchless design eliminates all jumpers and switches for fast and simple setup. Plus, menu driven software utilities are provided to easily change the card's configuration.

Connectors:
Analog Video: 15 pin D shell (female) IBM standard.
VGA Pass – through: 26 pin edge connector.

Monitor Compatibility:
IBM PS/2 85XX VGA color or monochrome analog monitors. Multisync and Super-VGA monitors. All other compatible monitors.

Dimensions:
2.75" (W) x 6.25" (D)

Power:
+5V +/–5%, @ 0.5A typical.

MTBF:
100,000 hours.

Warranty:
Two year limited warranty.

Software			Monitors[1]		
			Analog Monitors		
Modes	Resolution	Colors/[2] Palette	VGA Analog	IBM 8514	Multisync Analog
VGA	640x480 All 17 VGA Modes	16/256K	▪	▪	▪
EGA	640x350 640x200 320x200	16/64 16/64 16/64	▪	▪	▪
CGA	640x200 320x200	2/8 4/16	▪	▪	▪
Hercules	720x348 640x400	Mono Attributes	▪	▪	▪
MDA	720x350	Mono Attributes	▪	▪	▪

[1] Check sync signals for compatibility.
[2] Displayed in shades on monochrome monitors.

ATI Technologies Inc.
3761 Victoria Park Avenue
Scarborough, Ontario
Canada M1W 3S2
User Support: (416) 756-0711
Offices: (416) 756-0718
Fax: (416) 756-0720

ATI TECHNOLOGIES INC.
Technology you can Trust.