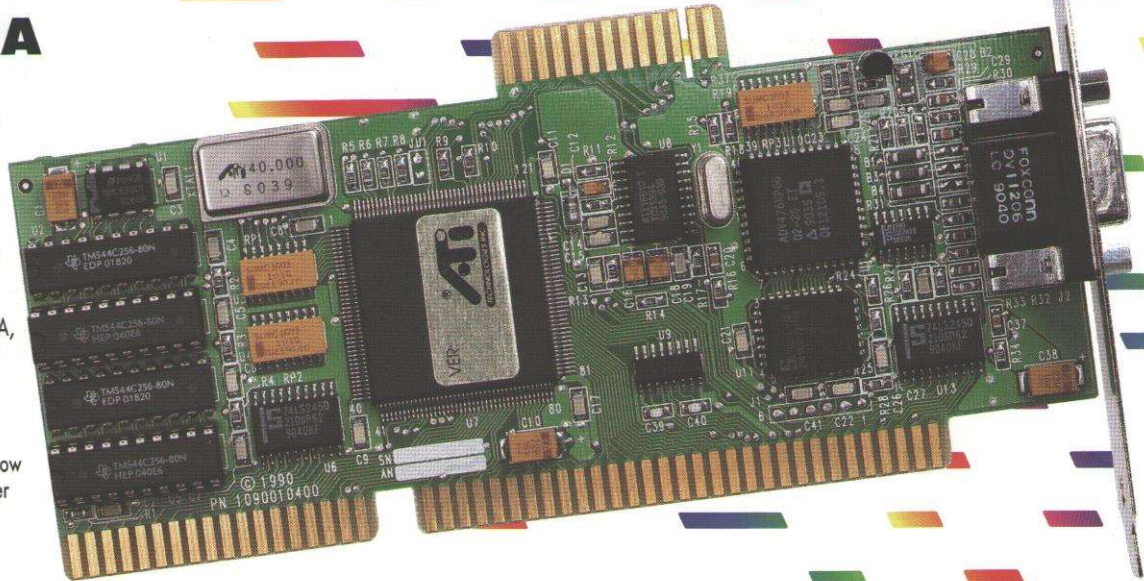# VGA INTEGRA™

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.

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 warranty.

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.

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