AutoSwitch™ EGA 480 Card

High-Performance Video For The IBM Standard.

The Paradise *AutoSwitch*™ EGA 480 Card offers superior video performance in graphics and text for the IBM* PC, XT, AT and compatibles. It packs more features and popular software drivers into one card than any other enhanced graphics adapter:

AutoSwitch. Automatically reconfigures itself to the graphics mode required by the software in use (EGA, CGA, etc). No switches to set or commands to key in.

Automatic Monitor Detection. Automatically recognizes monitor type and configures itself accordingly. Saves you the trouble of setting switches.

640 x 480 Display. Provides extended EGA resolution, delivering up to 37% greater resolution than the IBM EGA standard on multi-frequency monitors. Significantly improves on-screen video detailing.

132 Column Text Mode. Allows 132 column screen display without scrolling on Enhanced-RGB and multi-frequency monitors. Ideal for spreadsheet and word processing applications.

Outstanding Color Clarity. Offers a choice of 16 on-screen colors from a 64 color palette.

Popular Software Drivers. Provides full compatibility with today's most popular applications software, enabling them to run in the EGA 640 x 480 mode. See list on back for details.

Complete Video Standard Compatibility. Provides complete EGA compatibility plus 100% downward compatibility with pre-EGA standards such as MDA, Hercules,* CGA and Plantronics.

A Full Complement of 256KB Video Memory.

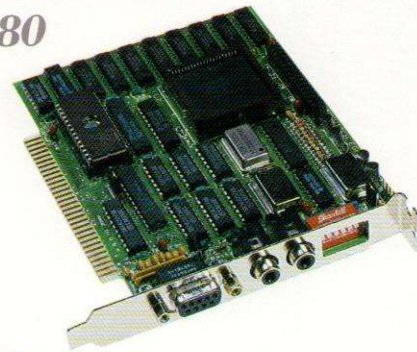*Flicker-Free Scrolling*. Eliminates the visually fatiguing problem of flickering in all modes.

Limited One-Year Warranty. Covering repair or replacement of defects on cards properly installed and used.

PARADISE
Western Digital Imaging

AutoSwitch EGA 480
Specifications

Physical Characteristics:
- Fits any IBM expansion slot, even short slots
- Height 5 inches, including bracket
- Length 5⅞ inches, including bracket
- Weight 6 ounces

Connectors:
- Nine pin connector for all supported monitor types
- Berg strip for light pen
- IBM feature connector and associated RCA jacks

Controls:
- Six position DIP switch above connectors configures the card and controls these features:
  - AutoSwitch
  - Automatic Monitor Detection
- 2XX/3XX jumper (like IBM) controls addressing of the card

Environmental Limitations:
- Ambient temperature
  - Storage/shipping −40 to +62 C
  - Operating +4 to +55 C
- Ambient relative humidity
  - Storage/shipping 5% to 95% RH
  - Operating 8% to 80% RH

Electrical:
- Voltage +5V (±5% regulation)
- Current Demand: Nominal .75A (5V)
- Average power consumption: 4W
- EMI (Electro-Magnetic Interference): FCC Class B

Sync Frequencies by Monitor Type:

Mode	Vertical	Horizontal
EGA Monochrome	49.4 Hz	18.2 KHz
MDA Monochrome	50.0 Hz	18.43 KHz
Hercules Monochrome	50.9 Hz	18.8 KHz
Standard RGB	60.0 Hz	15.7 KHz
Enhanced RGB (200 line mode)	60.0 Hz	15.7 KHz
Enhanced RGB (350 line mode)	60.0 Hz	21.8 KHz
Multi-frequency RGB (480 line mode)	60.0 Hz	30.5 KHz

Video Port Connector Pinout by Monitor:

PIN	Monochrome	RGB	Enhanced RGB
1	Ground	Ground	Ground
2	Ground	Ground	S. Red
3	Red	Red	Red
4	Green	Green	Green
5	Blue	Blue	Blue
6	Intensity	Intensity	S. Green
7	Video	No Con	S. Blue
8	H. Sync	H. Sync	H. Sync
9	V. Sync	V. Sync	V. Sync

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Monitor/Software Compatibility

The following table lists the "families" of software compatibility and dot/color resolution modes automatically available according to the type of monitor you are using.

Monitor in use:	You can run software written for:	Resolution(s) available:
Monochrome	Monochrome Display Adapter (MDA)	80 character text
	Hercules Graphics Card	720h by 348v B&W
	EGA monochrome mode	640h by 350v B&W
Standard RGB	Color/Graphics card (CGA)	40 or 80 column text 320h by 200v by 4 colors 640h by 200v B&W
	Plantronics modes	320h by 200v by 16 colors 640h by 200v by 4 colors
	EGA in 200 line modes	640h by 200v up to 16 colors
Enhanced RGB	All of the modes listed under Standard RGB plus: EGA in 350 line modes	640h by 350v up to 16 colors
	Paradise 132 column text†	132 character text w/25 or 43 lines
Multi-frequency	All modes listed under Standard and Enhanced RGB plus: Paradise 480 line graphics mode†	640h by 480v by 16 colors

†These modes require use of specific application software drivers supplied with your *AutoSwitch* EGA 480 Card.

AutoSwitch EGA 480 currently supports the following applications software:

Software	640 x 480 Display	132 Column
AutoCAD* v2.18 or later	◢	
CAD Vance*	◢	
GEM* v2.1	◢	
Ventura Publisher* 1.00 or later	◢	
Microsoft* Windows	◢	
PageMaker* (Windows)	◢	
EGA Paint* v2005	◢	
Symphony*	◢	
Lotus 1-2-3* release 2	◢	◢
Framework*II	◢	◢
WordStar* release 2		◢
WordStar Professional release 4		◢
WordPerfect*		◢

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