

Mode (Hex)	Type	Colors	Resolution	Font	VCLK (MHz)	Hsync \pm (KHz)	Vsync \pm (Hz)
32	APA	16	1024 by 768	8 by 16	44.9	35.5	86
					65	48.5	60
					75	56.5	70
					80	60.5	75
42	APA	256	1024 by 768	8 by 16	44.9	35.5	86
					65	48.5	60
					75	56.5	70
					80	60.5	75

Table C-4. 1024 by 768 Modes

Mode (Hex)	Type	Colors	Resolution	Font	VCLK (MHz)	Hsync \pm (KHz)	Vsync \pm (Hz)
33	APA	16	1280 by 1024	8 by 16	77	48	86
43					256	1280 by 1024	110
		77	48				86
						110	66.7

Table C-5. 1280 by 1024 Modes

Mode (Hex)	Type	Colors	Resolution	Font	VCLK (MHz)	Hsync \pm (KHz)	Vsync \pm (Hz)
51	APA	32K	800 by 600	8 by 16	72	35.5	56
					80	38	60
					95	47.5	72
55	APA	64K	800 by 600	8 by 16	72	35.5	56
					80	38	60
					95	47.5	72

Table C-7. 800 by 600 High Color Modes

Mode (Hex)	Type	Colors	Resolution	Font	VCLK (MHz)	Hsync \pm (KHz)	Vsync \pm (Hz)
52	APA	32K ¹	1024 by 768	8 by 16	95	36.5	86
56	APA	64K ¹	1024 by 768	8 by 16	95	36.5	86

¹ Requires 2MB of video memory.

Table C-8. 1024 by 768 High Color Modes

the drawing engine is not used. The speed in these modes is comparable to the fastest type of standard VGA card.

Built-in features include:

- 1 MB of on-board memory (DRAM), upgradable to 2 MB of DRAM.
- Systems compatibility:
 - IBM PC/AT and compatibles
 - 32-Bit PCI local bus
 - VESA local bus
- Resolutions up to 1280 by 1024
- Extended graphics resolutions up to 1280 by 1024 by 256 (I) color (2MB option).
- True color graphics resolutions up to 800 by 600 by 16M colors with 2 MB of memory.

COLOR SUPPORT				
	640 x 480	800 x 600	1024 x 768	1280 x 1024
16 colors	● ¹	●	●	●
256 colors	●	●	●	● ²
64K colors	●	●	● ²	
16.8M colors	●	● ²		

¹ Windows standard VGA driver.
² Requires 2 MB of on-board memory.

- Supports extended text modes: 132 by 50, 132 by 44, 132 by 34, 132 by 28 and 132 by 25 columns.
- Supports the simultaneous use of two monitors; co-exists with either an MDA adapter or a CGA adapter.
- Advanced graphical acceleration architecture using hardware cursor, BITBLT, pattern fills, line draws, single fill, short stroke vectors, rectangle clipping, color expansion, transparency, and raster operation.
- Enhanced display drivers for DOS-based applications: AutoCAD, AutoShade, Lotus 1-2-3 and Symphony, PCAD, VersaCAD, Microsoft Word and WordPerfect.
- Operating system driver support for Windows 3.1, WFW 3.11, Windows NT, and OS/2.

- Supports virtual screen panning under Windows 3.1.
- Supports refresh rates up to 75 Hz.

Refresh Rates for Bali 32		
Resolution	Number of Colors	Refresh Rates**
640 x 480	16	60, 72
	256	60, 72
	32,768	60, 72
	65,536	60, 72
	16.8 million	60
800 x 600	16	56, 60, 72
	256	56, 60, 72
	32,768	56, 60, 72
	65,536	56, 60, 72
	16.8 million*	56, 60
1024 x 768	16	43 (I), 60, 70, 75
	256	43 (I), 60, 70, 75
	32,768*	43 (I)
	65,536*	43 (I)

Refresh Rates for Bali 32		
Resolution	Number of Colors	Refresh Rates**
1280 x 1024	16 256*	43 (I), 60 43 (I), 60

* Requires 2 MB of RAM
 ** All resolutions are non-interlaced, except where refresh rate is annotated by an (I).

- Provides power management features via the Paradise Green utility to power down a display monitor using DPMS control signals (conforms to Energy Star and VESA guidelines).
- Supports VESA BIOS extensions.
- Supports interlaced and non-interlaced monitors.
- Fully compatible with PCI or VESA local bus, VGA, EGA, CGA, HGC, and MDA.

- Superior customer service
 - Three-year warranty
 - Technical support hotline
 - Electronic bulletin board for fast driver updates

For quick and simple installation, the Paradise Bali 32 Card comes with a set of easy-to-install software utilities and drivers that are optimized to achieve maximum performance from your applications.

Addendum to Bali 32

The text in these pages replaces those in the existing Bali 32 Manual. The page numbers at the top reference the existing Bali 32 Manual.

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Text for Page 3

the drawing engine is not used. The speed in these modes is comparable to the fastest type of standard VGA card.

Built-in features include:

- 1 MB of on-board memory (DRAM), upgradable to 2 MB of DRAM.
- Systems compatibility:
 - IBM PC/AT and compatibles
 - 32-Bit PCI Local Bus
- Extended graphics resolutions up to 1280 by 1024 by 256 (1) color (2MB option).
- True color graphics resolutions up to 800 by 600 by 16M colors with 2 MB of memory.

	COLOR SUPPORT			
	640 x 480	800 x 600	1024 x 768	1280 x 1024
16 colors	● ¹	●	●	●
256 colors	●	●	●	● ²
64K colors	●	●	● ²	
16.8M colors	●	● ²		

¹ Windows standard VGA driver.
² Requires 2 MB of on-board memory.

- Supports extended text modes: 132 by 50, 132 by 44, 132 by 34, 132 by 28 and 132 by 25 columns.
- Supports the simultaneous use of two monitors; co-exists with either an MDA adapter or a CGA adapter.
- Advanced graphical acceleration architecture using hardware cursor, BITBLT, pattern fills, line draws, single fill, short stroke vectors, rectangle clipping, color expansion, transparency, and raster operation.
- Enhanced display drivers for DOS-based applications: AutoCAD, AutoShade, Lotus 1-2-3 and Symphony, PCAD, VersaCAD, Microsoft Word and WordPerfect.
- Operating system driver support for Windows 3.1, WFW 3.11, Windows NT, and OS/2.

- Supports virtual screen panning under Windows 3.1.
- Supports refresh rates up to 75 Hz.

Refresh Rates for Bali 32PCI		
Resolution	Number of Colors	Refresh Rates**
640 x 480	16	60, 72
	256	60, 72
	32,768	60, 72
	65,536	60, 72
800 x 600	16.8 million*	60
	16	56, 60, 72
	256	56, 60, 72
	32,768	56, 60, 72
1024 x 768	65,536	56, 60, 72
	16.8 million*	56, 60
	16	43 (I), 60, 70, 75
	256	43 (I), 60, 70, 75
	32,768*	43 (I)
	65,536*	43 (I)

Refresh Rates for Bali 32PCI		
Resolution	Number of Colors	Refresh Rates**
1280 x 1024	16	43 (I), 60
	256*	43 (I), 60

- Requires 2 MB of RAM
- All resolutions are non-interlaced, except where refresh rate is annotated by an (I).
- Provides power management features via the Paradise Green utility to power down a display monitor using DPMS control signals (conforms to Energy Star and VESA guidelines).
- Supports VESA BIOS extensions.
- Supports interlaced and non-interlaced monitors.
- Fully compatible with PCI bus, VGA, EGA, CGA, HGC, and MDA.

- Superior customer service:
 - Three-year warranty
 - Technical support hotline
 - Electronic bulletin board for fast driver updates

For quick and simple installation, the Paradise Bali 32 Card comes with a set of easy-to-install software utilities and drivers that are optimized to achieve maximum performance from your applications.

Appendix D - Hardware Specifications

Generic Classification

Video Display Adapter/Fixed Function Graphics Accelerator

Bus Type

PCI or VL bus

Video Connector

VGA standard 15-pin analog RGB

Graphics Accelerator

ARK1000PV

Display Memory

1 MB (standard), upgradable to 2 MB

Memory Upgrade (SOJ)

256 KB by 16-bit DRAM, 70 ns (two DRAMs are required)
 NEC 424260A-70
 Toshiba TC514260BJ-70

Memory Upgrade (DIP)

256 KB by 4-bit DRAM, 70 ns (eight DRAMs are required)
 Sanyo LC324256BP-70
 Mosel-Vitellic V53C104HP45

Monitor Compatibility

A 48 KHz maximum horizontal sweep rate is required for 1280 by 1024 resolution; 57 KHz is required for 1024 by 768.

RAMDAC

True Color, 80 MHz, 8-bit