

Western Digital

Applied Computing Solution

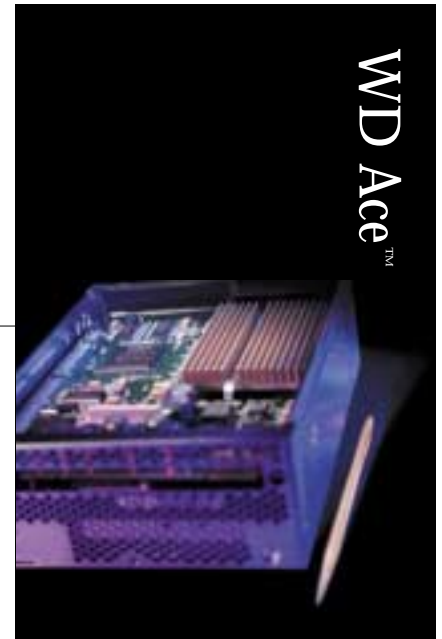
WD Ace is a basic computing engine which, when integrated with additional devices, becomes a compact applied computer system, designed for a wide variety of industrial and commercial applications ranging from gaming machines and automotive testing systems to blood analyzers and point-of-sale equipment.

In a single enclosure not much larger than a conventional hard drive, WD Ace packages a processor, a shock-mounted hard drive and all the related electronics to support a multitude of dedicated operations. WD Ace replaces the applied computer systems typically assembled from loose components by manufacturers of the host equipment. The use of WD Ace can result in significant reductions in engineering and manufacturing time.

WD Ace is designed for long life and reliable, continuous operation in rugged environments hostile to sensitive computing systems. It features exceptional shock resistance, upgradeable memory and one-plug connection. Forced-air cooling by an advanced, patent-pending thermodynamic system provides cool, quiet operations. Thorough testing in the Western Digital FIT Lab ensures the compatibility of the WD Ace with all modern operating systems.

EXCLUSIVE FEATURES

- A single-point connection for all functions simplifies hookup and permits easy installation and removal of the entire computer engine.
- The shock-mounted EIDE hard drive is built for long life and reliability by Western Digital.
- Field-upgradeable memory is configured easily by means of an external memory slot.
- The PMC card slot on the circuit board is 100 percent electrically PCI compatible. This permits easy design of custom boards or the use of any hundreds of available PMC cards.
- DVI video, an industry standard, allows use of SVGA digital or analog video with the same connector.



COMPONENTS

Complete Intel® Pentium III Coppermine and Pentium II Celeron™ Processor Platforms

Shock-mounted EIDE hard drive

SVGA digital/analog video

All standard I/O

AVAILABLE OPTIONS

Available through WD partners:

Standard or custom I/O

Standard or custom chassis

PART NUMBERS

WD Ace-10

WDACE10-036S001

WDACE10-056S001

WDACE10-070S001

WDACE10-076S001

WD Ace I/O Card

WDACE10IOC-001

WD Ace Universal I/O Card

WDACE10UIOC-001

WD Ace Single LAN Card

WDACE10SLC-001

WD Ace Dual LAN Card

WDACE10DLC-001

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WD Ace



General Specifications

Processor

- Intel Pentium II Celeron processors, 366 Mhz, 566 Mhz, and 766 Mhz
- Intel Pentium III Coppermine processors, 700 Mhz

DRAM

- 1 DIMM Socket (256 MB, PC100/PC133 SDRAM max.)

Video capabilities

- Intel 82810DC-100 graphics and memory controller
- Resolutions 640 x 480 x 16M through 1600 x 1200 x 256
- 2-D, 3-D and motion video hardware acceleration
- Optional 4 MB 133 MHz video cache supported

Hard drive

- Shock-mounted, EIDE, 7.5 GB minimum capacity¹

Directly supported interfaces (present on the 140-pin I/O connector)

- LVDS digital video
- VGA video
- USB (2 ports active, 1 port reserved)
- ATA/66 EIDE port (secondary port)
- AC '97 multimedia port
- LPC bus for legacy functions and external BIOS
- Standard ATX power input and control
- Reset, sleep, power-on switches and power-on LED
- High-speed LAN capabilities with optional PMC cards (4 differential pairs)

Supports legacy I/O adapter cards using LPC compatible super I/O chip (Available on optional I/O cards)

- 2 serial ports
- Parallel port
- 2 PS/2 ports (keyboard and mouse)
- Floppy port
- Game controller port PCI expansion slot

PMC expansion slot with high speed serial pass-through connector

RTC/CMOS battery is replaceable 3.6V lithium coin-cell type CR-2032

Supports Intel APM power management

Physical Dimensions

Height	2.25 in (5.72 cm)
Length	8.06 in (204.72 cm)
Width	5.46 in (13.87 cm)
Weight (no DRAM)	2.81 lb. (1.27 Kg)

Power Requirements

Average operation (reading and writing)
64 MB DRAM no PMC card - (for more detail see Technical Reference Manual)

+3.3V	2.25A
+5.0V	4.70A
+12.0V	1.25A
-12.0V	0.00A
+5V VSB	0.25A

Environmental Specifications:

Operating Temperature and Humidity

Temperature	5 to 40 degrees Celsius
Humidity	5 to 85% RH non-condensing
Thermal Gradient	20 degrees C/Hr. max

Reliability

AFR	<1.0%
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Designed for



Microsoft®
Windows®2000
Professional
Windows®NT
Workstation 4.0
Windows®98

Designed for



Microsoft®
Windows®Me

Red Hat Linux 7.0



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1. Western Digital defines a megabyte (MB) as 1,000,000 bytes and a gigabyte as 1,000,000,000 bytes.