



"The Next Chapter"

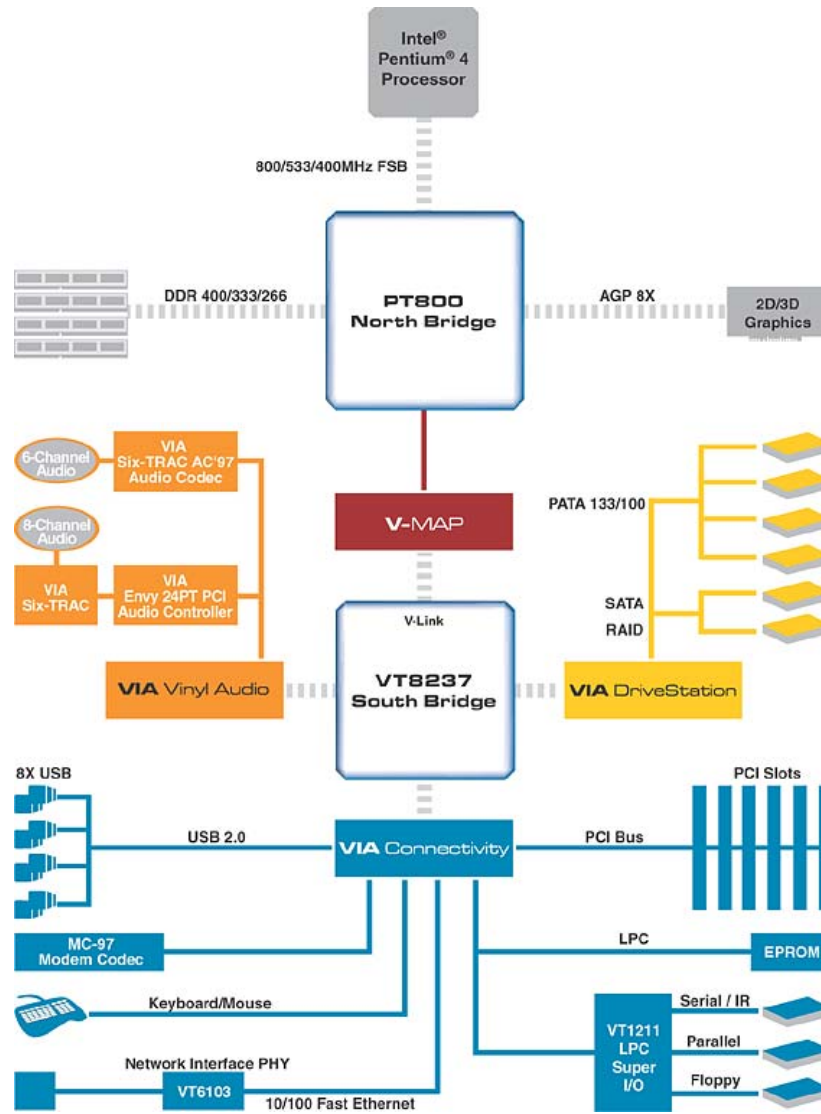
July 2003

VIA PT800 Highlights

- **First in new generation of VIA PT Series of core logic platforms for the Intel® Pentium® 4 processor**
 - **Exceptional Performance**
 - Optimized support for 800MHz/533MHz/400MHz FSB
 - Hyper-Threading Technology Support
 - VIA FastStream64™ DDR400 Memory Controller Technology
 - **Rich Digital Media Experience**
 - AGP8X support for state of the art graphics
 - VIA Vinyl™ Multichannel Audio Suite for superlative integrated and onboard 5.1 and 7.1 surround sound
 - **Cutting-Edge Storage Technology**
 - First to market native Serial ATA/RAID support in the VT8237 South Bridge
 - **Unrivaed Stability & Reliability**
 - Unified VIA Hyperion 4-in-1 Driver
 - **Global Availability**
 - Multiple design wins from all the world's leading motherboard manufacturers



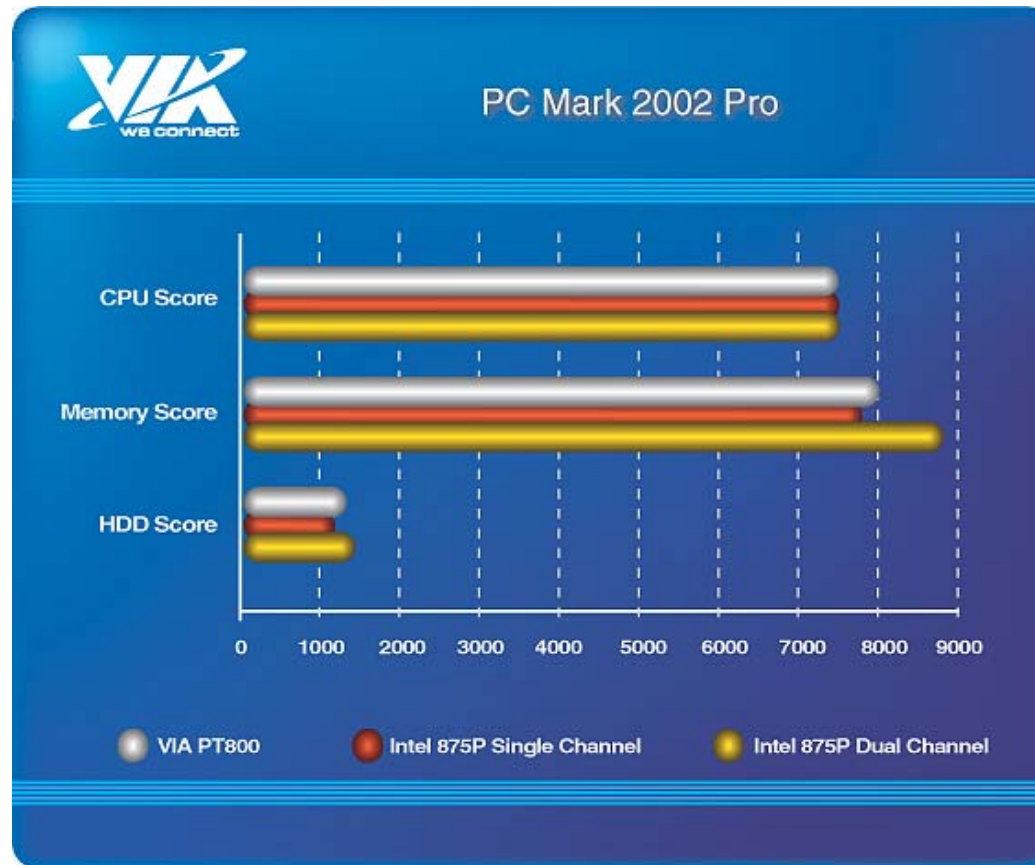
VIA PT800 Platform Architecture



Hitting the Mainstream Performance Segment Sweet Spot



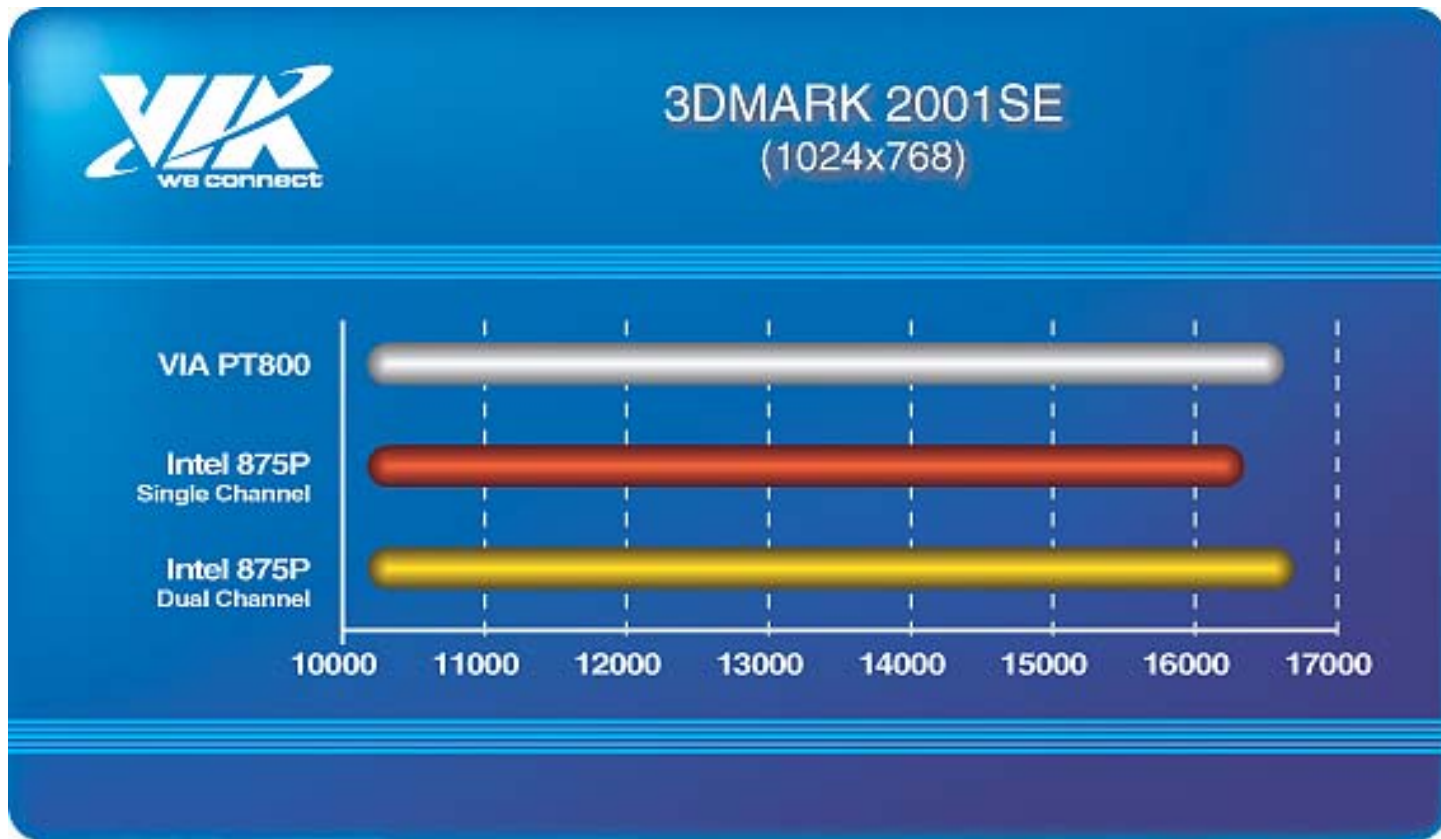
PC Mark Performance



VIA PT800 System: VIA PT800 reference mainboard, Pentium 4 3GHz processor w/800MHz FSB, 1 x 512MB Corsair XMS3500, ATI Radeon 9700, Maxtor 80GB Serial ATA HDD, Windows XP

Intel 875 System: Gigabyte 875P mainboard, Pentium 4 3GHz processor w/800MHz FSB, 1 x 512MB Corsair XMS3500 (single config.) 2 x 256MB Corsair XMS3500 (dual config.), ATI Radeon 9700, Maxtor 80GB Serial ATA HDD, Windows XP

3DMark 2001 Performance



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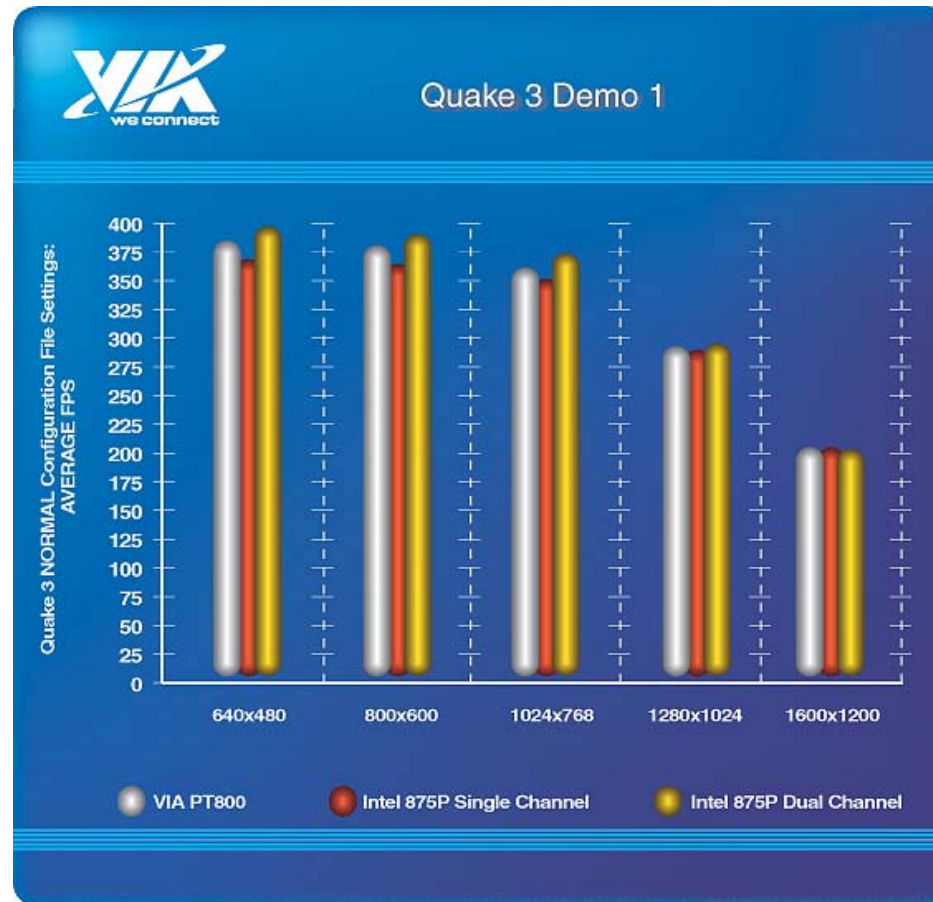
Jedi Knight Performance



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Quake III Performance



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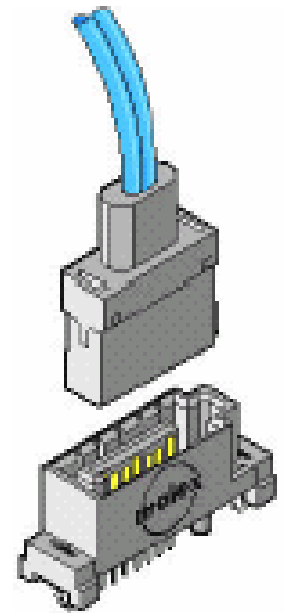
VT8237 South Bridge Overview



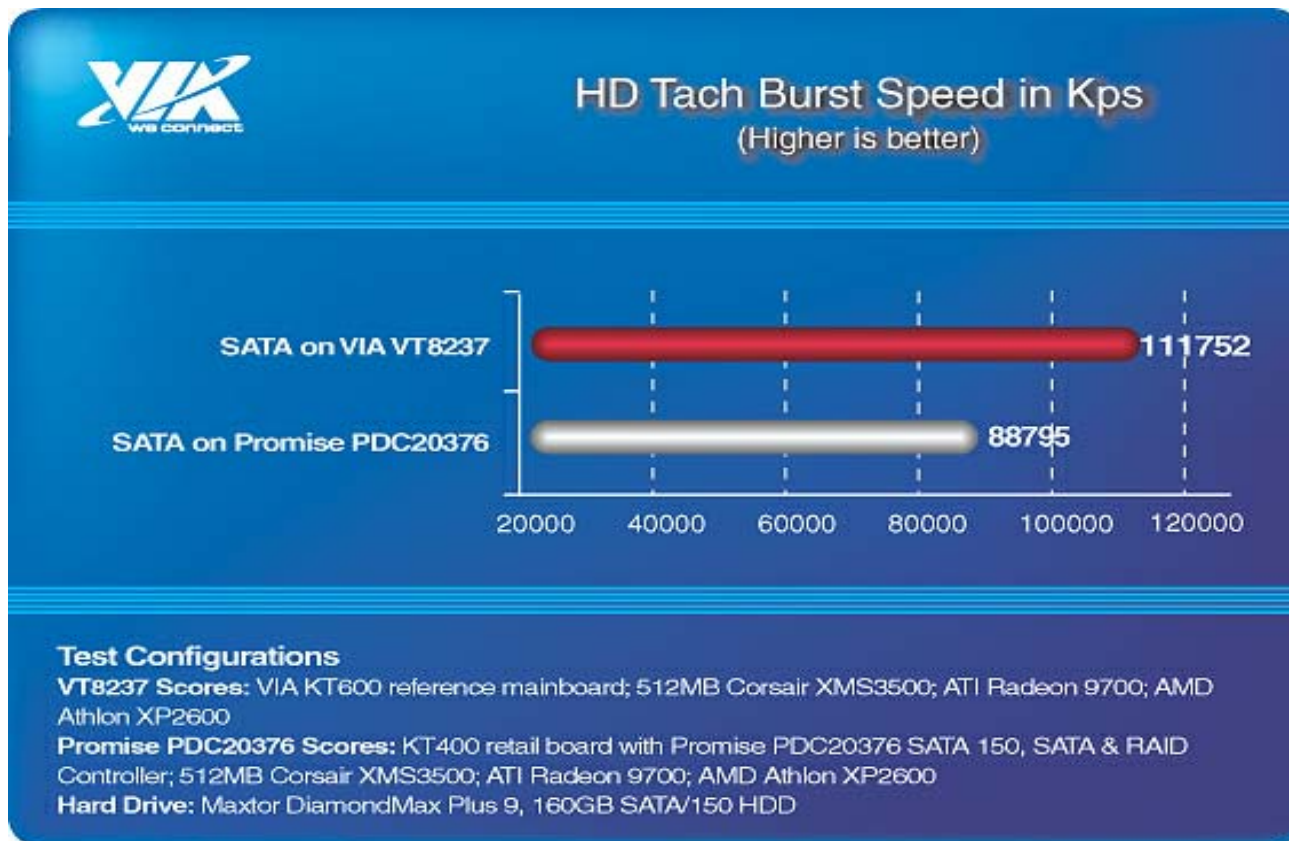
- **VIA DriveStation™ Controller Suite**
 - **Serial ATA**
 - Full duplex high performance 150MB/s Dual Channel Serial ATA interface
 - Support for additional two Serial ATA devices through SATA Lite™ interface
 - **V-RAID**
 - Serial RAID controller for RAID 0, RAID 1, RAID 0+1 and JBOD
 - User-friendly Windows-based V-RAID software interface
 - **Parallel ATA 133**
 - Supports up to four PATA devices
- **VIA Advanced Connectivity Suite**
 - **USB 2.0 Controller**
 - Support for 8 USB 2.0/1.1 ports
 - **Network Controller**
 - Enterprise Class 10/100Mbps Fast Ethernet MAC
 - **PCI & LPC bus controllers**
- **VIA Vinyl™ Multichannel Audio Suite**
 - **VIA Vinyl integrated 5.1 surround sound**
 - AC '97 audio
 - VIA Six-TRAC codec
 - **VIA Vinyl Gold onboard 7.1 surround sound**
 - 24/96 resolution audio
 - VIA Envy24PT + VIA Six-TRAC Codec + additional DAC
 - **VIA Stylus Audio drivers**
 - Integrated Sensaura technology
 - Full 3D gaming support
- **V-MAP Architecture**
 - **8X V-Link**
 - High speed 533MB/s South Bridge/North Bridge interconnect
 - Supports current generation VIA North Bridges across all processor platforms
 - **VIA Hyperion 4in1 Unified Drivers**
 - Optimized system performance and stability

Leading the Way with Native Serial ATA

- **Full Duplex High Performance 150MB/s per Port Dual Channel Serial ATA interface**
 - Direct support for two SATA devices
 - Bypasses PCI Bus; flies straight to the 512 MB/s V-Link chip interconnect for superior performance in the most data intensive applications
 - SATALite™ interface expands support to four SATA devices through external Serial ATA PHY
- **Easier Configuration**
 - Instant recognition by the Operating System for “on the fly” installation
 - No Master/Slave configurations
 - Full backward Parallel ATA compatibility for seamless migration path
- **System Design Innovation**
 - Simpler cabling for improved airflow and easier system installation
 - Reduced pin-count to minimize use of valuable mainboard real estate
 - Lower power & lower voltage for smoother small form factor and low profile system design implementations



VIA DriveStation Native Serial ATA Performance



VIA DriveStation: V-RAID

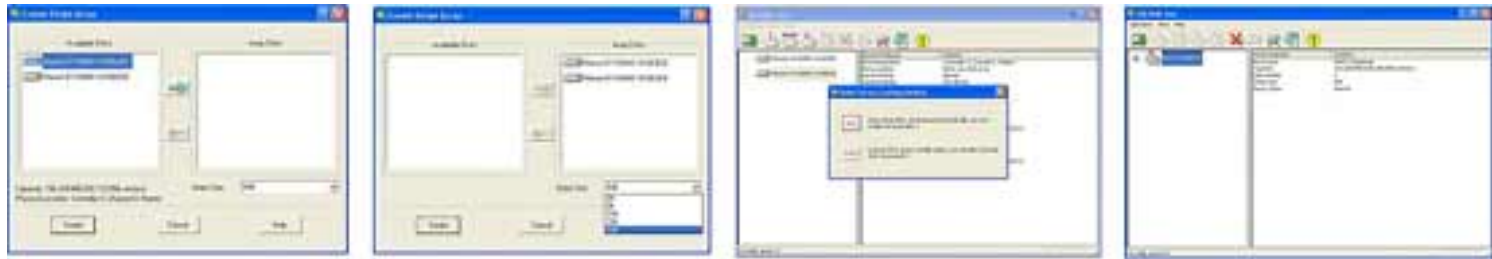
- **Industry's first full-featured native Serial RAID solution to be integrated into PC chipset architecture**
 - Supports RAID Levels 0, 1, 0+1¹ and JBOD
 - Highest HDD data transfer rates for maximum system performance
 - Superior fault tolerance for optimum data integrity
- **Ease of Use**
 - Easy installation and array management with user-friendly Windows-based V-RAID software interface
 - VIA DriveThru™ technology enables 'on-the-fly' upgrades to RAID configurations
- **Bringing RAID to the Mainstream**
 - Integrated V-RAID H/W and S/W solution reduces overall system cost
 - Easy installation and user-friendly software removes technical barriers



¹RAID Level 0+1 only supported on motherboards and systems where support for two additional Serial ATA drives has been added through the implementation of the VIA SATA Lite interface.

V-RAID Software Interface

- **Industry-first user-friendly V-RAID software enables easy installation and management**
 - Tricky BIOS configurations are a thing of the past
 - Compatible with Windows® or Linux operating systems
 - VIA DriveThru™ technology enables 'on-the-fly' upgrades to RAID configurations



South Bridge Serial ATA/RAID Feature Comparison

Specification	VIA VT8237	Intel ICH5R	Nvidia MCP-T
Serial ATA	Full-Duplex Dual Channel Serial ATA	Full-Duplex Dual Channel Serial ATA	None
Maximum number of SATA Devices	2+2	2	0
RAID	RAID 0 RAID 1 RAID 0+1 JBOD	RAID 0	None
RAID Setup Interface	V-RAID Window-based Utility	BIOS-based Utility	None

VIA Advanced Connectivity Suite

- **USB 2.0 Controller**

- Support for 8 USB 2.0/1.1 ports
- 480 Mb/s connection to the latest peripheral and multimedia devices



- **Network Controller**

- 10/100Mb/s Fast Ethernet MAC
- Industrial-strength networking capabilities

- **PCI & LPC bus controllers**

- PCI 2.2 compliant
- 6 PCI Masters

VIA Vinyl™ Multichannel Audio Suite

- **VIA Vinyl Audio**

- **Richest choice of market leading integrated and onboard audio performance options**

- **VIA Vinyl integrated 5.1 surround sound**

- VIA Vinyl AC '97 audio controller
- VIA Six-TRAC codec



- **VIA Vinyl Gold onboard 7.1 surround sound**

- VIA Envy24PT + VIA Six-TRAC + additional DAC
- Only onboard audio solution with 8-channel immersion audio
- 24/96 resolution digital outputs



- **VIA Stylus Audio Driver**

- Combo audio driver
- Integrated Sensaura Technology
- Awesome 3D positional audio effects
- Full gaming support



Unified Performance Drivers



- **VIA Hyperion 4in1 Unified Drivers**
 - Maximum system performance
 - Maximum compatibility and stability
 - Regular updates
 - Downloads and support at VIA Arena (www.viaarena.com)
 - Reducing support costs for VIA and VIA motherboard customers

VIA's Mainboard Partners

