

# VIA VECTRO

## Peripheral Controllers

VIA Vectro USB2.0 Peripheral Controllers are certified for Low Power Hi-Speed USB2.0 operation and offer high speed data transfer rates of up to 480Mbps, while maintaining ultra low power consumption of less than 100mA, making them ideal for portable devices, saving battery life in mobile systems and ensuring reliability in power sensitive applications.



### VIA Vectro VT6204 USB2.0 to IDE bridge

The VIA Vectro VT6204 is compatible with all kinds of ATA/ATAPI devices, supporting seamless connectivity to 3.5inch and 2.5inch external HDD, storage devices and optical media drives, extending storage capabilities for customers.



### VIA Vectro VT6207 USB2.0 to Compact Flash Drive Controller

The VIA Vectro VT6207 supports Compact Flash™ Type I and II and Micro Drive interfaces, offering the most cost-effective solution for portable Compact Flash memory devices.



### VIA Vectro VT6205 USB2.0 to 9-in-1 Flash Card Reader Controller

The VIA Vectro VT6205 supports nine popular flash media formats, CF™ Type I and II, Micro Drive, SM™, MST™, MST™ Pro, SD™, MMC™, NAND Flash and xD™ and is accredited with the "Design for Microsoft® Windows® XP" logo.



### VIA Vectro VT6205A USB2.0 9 Single Chip Photobank Controller

The VIA Vectro VT6205A is a multi-interface Hi-Speed Low Power USB2.0 photobank controller, compatible with all kinds of ATA/ATAPI devices and nine popular flash media formats, CF™ Type I and II, Micro Drive, SM™, MST™, MST™ Pro, SD™, MMC™, NF and xD™.

The VIA Vectro VT6205A is designed for compact-sized Photobank devices with a built-in high capacity 2.5inch HDD, enabling digital data transfer between flash cards and portable storage devices, without the need of a PC.



### VIA Vectro VT6206 USB2.0 to Flash Drive Controller

The VIA Vectro VT6206 supports up to 4 NAND flash disks and flash capacity from 32Mbits to 4Gbits, offering high throughput performance and the most cost-effective solution supporting NAND Flash interfaces.



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For more information please contact

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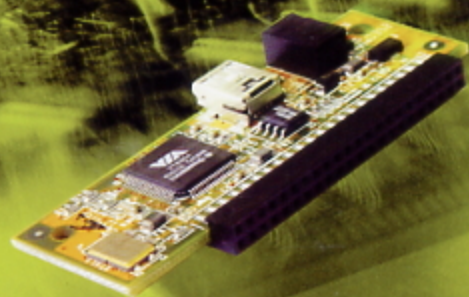
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## Peripheral Controllers



Features	VIA Vectro VT6204	VIA Vectro VT6205	VIA Vectro VT6205A	VIA Vectro VT6206	VIA Vectro VT6207
<b>USB Specification 2.0 Compatible</b>	Yes	Yes	Yes	Yes	Yes
Complies with USB2.0					
Complies with USB1.0					
Interface compliant with the UTM1					
Supports 480Mbps high speed and 12 Mbps full speed					
<b>Supports endpoints:</b>	Yes	Yes	Yes	Yes	Yes
2K-byte buffer for bulk endpoints					
64-byte buffer for control endpoint					
8-byte buffer for interrupt endpoint					
Hardware speed negotiation					
Dedicated bus idle timer					
Supports firmware upgrade via USB bus					
<b>Fast 8051 Macrocell 80C32-compatible</b>	Yes	Yes	Yes	Yes	Yes
Standard 8051 instruction set					
Supports CPU Clock Stop Control					
60/40/30 10Mhz execution speed at 4 cycles per instruction average					
Embedded 24KB mask ROM and 256-byte SRAM					
Additional 256-byte SRAM for general purposes					
Supports external 64KB ROM / Flash for flexibility					
Dedicated 2K-byte SRAM for lookup table					
<b>Compliant with ATA/ATAPI Specification Rev.6</b>	Yes		Yes		
<b>Supports:</b>		All	All	NAND Flash only	Compact Flash™ only
CompactFlash™; SmartMedia™; xD PictureCard™; MemoryStick™; MemoryStick™ Pro; Secure Digital™; MultiMediaCard™; NAND Flash					
<b>Supports External Serial EEPROM Interface for Firmware</b>	Yes	Yes	Yes	Yes	Yes
<b>Parameters</b>					
<b>GPIOs for Special Function Use</b>	4	6	6	2	2
<b>Built-in Power-on Reset (POR) and Low-voltage Detector (LVD)</b>	Yes	Yes	Yes	Yes	Yes
<b>LCD Display - supports 8-bit data interface</b>			Yes		
<b>Manufactured using 0.22 micron, low power CMOS process</b>	Yes	Yes	Yes	Yes	Yes
<b>3.3V voltage; 3.3V to 2.5V regulator for core power</b>	Yes	Yes	Yes	Yes	Yes
<b>48-pin LQFP Package without firmware support</b>				Yes	
<b>64-pin LQFP Package without firmware support</b>	2.5" drives				Yes
<b>128-pin PQFP/LQFP Package</b>	3.5" drives	Yes	Yes		
<b>Supported by Microsoft Windows XP and Windows 2000</b>	Yes	Yes	Yes	Yes	Yes
<b>Suitable drivers: Win98SE and WinME</b>	Yes	Yes	Yes	Yes	Yes

### VIA and USB2.0

The VIA Vectro high performance USB2.0 product portfolio includes a range of single chip host controllers, peripheral controllers and integrated chipset technologies. In developing both discrete and integrated USB2.0 solutions, VIA provides OEMs, system builders and device makers with the most cost effective and flexible method of incorporating the higher speed USB2.0 technology into their desktops, mobile systems and peripheral devices. Established VIA discrete and integrated solutions have been certified for Hi-Speed USB2.0 operation,

the recognized industry standard for consistent product quality and performance. Delivering superior bandwidth capacity of up to 480Mbps, Hi-Speed USB2.0 is swiftly superseding the standard USB1.1 specification for the PC, while maintaining seamless connectivity to the installed peripheral base. This high speed transfer technology is ideal for bandwidth-hungry peripherals such as video cameras, next generation scanners and printers, and greatly enhances the performance of demanding applications such as interactive gaming and digital photography.

