VT62xx Family: USB Roadmap

USB2.0 Host Controller Roadmap

VIA Technologies, Inc.

4 ports

HI-SPEED
CERTIFIED USB
USB2.0

VT6212L
- 4 Ports USB 2.0
- PCI / Cardbus IF
- 128 LQFP

VT6214L
- 4 Port USB 2.0
- PCI / Cardbus IF
- PCI Combo Function
- 128 LQFP

2 ports

VT6210L
- 2 Ports USB 2.0
- PCI / Cardbus IF
- 128 LQFP

VT6213L
- 2 Port USB 2.0
- PCI / Cardbus IF
- PCI Combo Function
- 128 LQFP

NOW

VT6212L PCI to USB2.0 Controller

- **Designed for USB2.0 Compliance**
  - PCI 2.2 compliant
  - 4 DMA Engines for pipelined control maximizing data transfer rates – VIA 18MB/s >NEC 13MB/s * ~38%
  - Dynamic Clock Stop Control for reduced power consumption - Idle 0.33w, Working 0.62w
  - Driver Support
    - Windows
    - WinCE
    - Linux
    - Mac OS
    - MontaVista
    - Vxworks

*Using IODATA HAD-IU80 USB2.0 HDD , MSI Intel 845G, P4 CPU 2.0G

USB2.0 Device Controller Roadmap

Photo Bank

VT6205
- 25 in 1 card reader
- USB-IF low power
- WHQL certified
- MS / MSp certified
- XD certified
- 128pin, LQFP 14x14

VT6205A
- SD/MMC/MS/MS pro/ CF/xD-Picture
- 1.8"/2.5" HDD support
- LCM Support
- SDK ready
- Card to HDD 5.8 MB/s
- 128pin, LQFP 14x14

VT6208S
- 1 port SATA II
- 48pin LQFP 7x7
- Nov/06 Sample
- Dec/06 MP

USB2.0 to SATA II

SERIAL ATA

VT6205SD
- SD/MMC card reader
- USB-IF low power
- WHQL certified
- 48pin, LQFP 7x7

HI-SPEED CERTIFIED USB

USB2.0

USB2.0 to Card Reader

VT6204PC
- 1 port PATA (EIDE)
- SD/MS/CF/xD reader
- 128pin, LQFP 14x14

VT6208SP
- 1 port SATA II
- Port PATA (EIDE)
- 64pin LQFP 10x10
- Nov/06 Sample
- Dec/06 MP

USB2.0 to IDE

VT6204
- PIO / ATAPI mode 6
- 1.5"/2.5"/3.5" HDD
- MO/Tape Support
- USB-IF certified
- 64pin, LQFP 10x10

USB20. to PATA (IDE)

VT6204A
- PIO / ATAPI mode 6
- 1.5"/2.5"/3.5" HDD
- MO/Tape Support
- Smaller Front Factor
- 48pin, LQFP 7x7
- Feb/06 Sample
- Apr/06 MP

NOW   **Q1/07**   **Q2**

VT6205 USB2.0 to Card-Reader Controller

- **Designed for USB2.0 Compliance**
  - USB2.0 compliant
  - LQFP 128pins for 25 in 1 memory card support
  - USB-IF Compliance Low Power Certified
  - Microsoft WHQL Certified
  - xD picture card Host Compliance Test Ver1.2 Certified
  - MemoryStick / MemoryStick pro Compliance Test Certified
  - Support Windows/ Mac OS /Linux
  - VT6205SD LQFP-48pins, 7x7 mm for SD/MMC only

VT6208S USB2.0 to SATA-II Controller

- **USB specification 2.0 compatible**
  - Supports 480Mbit/s "high speed" and 12Mbit/s "full speed"
  - Supports firmware upgrade via USB bus
- **Fast 8051 macro cell 80C32-compatible**
  - 80Mhz, 60MHz, 40MHz, 30MHz or 10MHz execution speed
  - Supports CPU clock stop
  - Supports external 64KB ROM/flash
- **SATA / SATA II**
  - Supports SATA gen1.
  - Compliant to SATA gen2.
  - RBC command conversion for ATA device
  - MMC-2 command pass through ATAPI command
- **Support ICE mode for ICE emulation during design period**
- **External serial EEPROM interface for firmware parameters**
- **PINs support for special functions**
  - 6 GPIOs for special usages(64 pin combo: 2 GPIOs for special usages)
  - 2 dedicate LED indicators(64 pin combo: 1 dedicate LED indicators)
- **Build in POR**
- **Support operation system**
  - Microsoft Windows 98SE / ME / 2000 / XP / 2003server / Vista
  - Mac OS version 10 (above)
  - Linux (Optional)
- **Package: LQFP-48pins, 7x7 mm**