

Product Bulletin

PCI7621

Integrated High-Performance FlashMedia, 1394 (FireWire®), Dual-Socket CardBus and Smart Card Controller

The Texas Instruments (TI) PCI7621 is an integrated FlashMedia controller, IEEE 1394 Open HCI host controller and PHY, dual-socket CardBus controller and Smart Card controller. This high-performance, low-cost integrated solution provides the latest in SD, SDIO, MMC, Memory Stick, SmartMedia, xD, IEEE 1394, PC Card and Smart Card technology. These features make the PCI7621 an excellent choice for the connectivity needs of notebook and desktop PCs as well as consumer electronic devices such as set top boxes.

The dedicated FlashMedia interface in the PCI7621 provides several configuration options for maximum implementation flexibility. One option provides both dedicated SD/SDIO/MMC slot and a dedicated Memory Stick/Memory Stick Pro slot. A second option provides a dedicated 5-in-1 slot supporting SD, SDIO, MMC, Memory Stick and Memory Stick Pro. A third option provides a dedicated 7-in-1 slot that adds support for xD and SmartMedia. Compact Flash cards can be supported via a passive Compact Flash adapter in either PC Card slot or by dedicating one of the PC Card slots as a Compact Flash slot.

With the ever-increasing capacities of FlashMedia cards, the speed at which you can transfer information to and from the card is becoming more important. The PCI7621 includes a high-speed DMA interface, making it the fastest integrated FlashMedia controller available in

the market. In addition, the PCI7621 includes TI's patent pending technology which allows support for SD and SDIO cards through Microsoft's SD Host driver, while still providing support for MMC, Memory Stick, Memory Stick Pro, xD and SmartMedia.

The PCI7621 also includes TI's industry leading 1394 and CardBus technology. It provides two 400-Mbps capable 1394 ports that can be used for connectivity with camcorders and other audio/video appliances. Two PC Card slots provide support for low-cost, passive FlashMedia and Smart Card adapters, as well as the ubiquitous PCMCIA and CardBus cards.

Key Features

- Dedicated FlashMedia interface that supports SD, SDIO, MMC, Memory Stick, Memory Stick Pro, xD, and SmartMedia
- Standard SD Host compliant controller with support for SD and SDIO cards
- Two 400-Mbps IEEE 1394a-2000 ports
- Dual Slot CardBus Controller compliant with PC Card Standard revision 8.1
- Support for low-cost, passive FlashMedia and Smart Card adapters in both CardBus slots
- Dedicated EMV compliant and B1 certified Smart Card interface
- Available in a 288-ball MicroStar BGA™ package

Key Benefits

- Fastest integrated FlashMedia controller available in the market
- Patent pending TI SD switching technology
- Support for latest FlashMedia interfaces such as SDIO, xD Picture Card, and Memory Stick Pro

For security and e-commerce applications, the PCI7621 provides a dedicated Smart Card interface that is compliant with all of the latest Smart Card standards, including ISO7816, PC/SC, B1 (with CT-API) and EMV-2000/EMVCO. This insures that the PCI7621 will work with a wider variety of Smart Cards and Smart Card applications than other available integrated solutions.

PCI7621 offers high-performance interface solutions for portable applications



For more information, visit www.ti.com/pciexpress

Part Number	PC Card Slots	1394	Flash Media	Smart Card	Package
PCI1510	1	No	Compact Flash	No	144-Pin BGA, 144-Pin LQFP
PCI1520	2	No	Compact Flash	No	209-Pin BGA, 208-Pin LQFP
PCI1620	2	No	SD, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	Yes	209-Pin BGA, 208-Pin LQFP
PCI4520	2	2 Ports	Compact Flash	No	257-Pin BGA
PCI4510	1	2 Ports	Compact Flash	No	209-Pin BGA
PCI7510	1	2 Ports	Compact Flash	Yes	209-Pin BGA
PCI7410	1	2 Ports	SD, MMC, Memory Stick, Memory Stick Pro, Compact Flash	No	209-Pin BGA
PCI7610	1	2 Ports	SD, MMC, Memory Stick, Memory Stick Pro, Compact Flash	Yes	209-Pin BGA
PCI6420	2	No	SD, MMC, Memory Stick, Memory Stick Pro, Compact Flash	No	288-Pin BGA
PCI6620	2	No	SD, MMC, Memory Stick, Memory Stick Pro, Compact Flash	Yes	288-Pin BGA
PCI7420	2	2 Ports	SD, MMC, Memory Stick, Memory Stick Pro, Compact Flash	No	288-Pin BGA
PCI7620	2	2 Ports	SD, MMC, Memory Stick, Memory Stick Pro, Compact Flash	Yes	288-Pin BGA
PCI6411	1	No	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	No	288-Pin BGA
PCI6611	1	No	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	Yes	288-Pin BGA
PCI7411	1	2 Ports	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	No	288-Pin BGA
PCI7611	1	2 Ports	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	Yes	288-Pin BGA
PCI6421	2	No	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	No	288-Pin BGA
PCI6621	2	No	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	Yes	288-Pin BGA
PCI7421	2	2 Ports	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	No	288-Pin BGA
PCI7621	2	2 Ports	SD, SDIO, MMC, Memory Stick, Memory Stick Pro, SmartMedia, xD, Compact Flash	Yes	288-Pin BGA
PCI4515	1	1 Port	Compact Flash	No	257-Pin BGA
PCI6515	1	No	Compact Flash	Yes	257-Pin BGA
PCI7515	1	1 Port	Compact Flash	Yes	257-Pin BGA
PCI1515	1	No	Compact Flash	No	257-Pin BGA

Note: Groups of pin-compatible parts are designated by background color change.

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