

PCI Express Mini Card with Secure, Smart Flash Management for Embedded Applications

Advantech Co. Ltd., a world-leading manufacturer in embedded computing, today announced the release of the PCI Express mini card with secure, smart flash management. Advantech cooperated with Phison, a worldwide leader of USB drives and memory card controllers for the STG-PCIE series. This new STG-PCIE series flash storage card with PCI Express 1.1 interface and high PCI Express (up to 250 MB/s) transfer rate provides better performance as a boot device than existing IDE or SATA flash storage. In order to help protect customers' intellectual property, Advantech has designed-in various security solutions, including Security ID, Secured Data, and Data Lock, so customers can easily implement security and backup functions on their applications.



Booting, Security, and Self-monitoring

In response to accelerating customer demand for high-performance, advanced security storage technology, Advantech PCI Express Mini Cards combine with advanced management software to make total solutions:

● Booting

Leverage existing Parallel ATA drivers and Serial ATA emulated Parallel ATA drivers to support native IDE for OS boot, including Windows XP Professional, Windows XP Embedded, WEPOS, Windows Embedded CE, Linux and QNX.

● Security

- Security ID allows users to set a hidden security string. An encrypted library helps users to read/write to a hidden area, making it easy to protect their applications' IP rights.
- Secured Data is highly integrated with Advantech BIOS technology, and strictly controls access and bootup from PCI Express storage.
- Data Lock can be configured to lock specific files, permitting or forbidding copying, deletion, or replacement.

● Self-Monitoring

- SMART, Self-Monitoring, Analysis, and Reporting Technology is implemented into OS application level allow user to observe SMART attributes of this storage.
- Life-Span Detection is a function that acts as an early warning system for the host by providing drive usage records as a percentage of the endurance specification.

The STG-PCIE Series

- Capacity: 1 GB ~ 8 GB
- PCI Express 1.1 Interface
- Transfer speeds up to 250 MB/s
- PCI Express bus-powered capability
- Power saving implemented
- Supports Security ID & secure storage features
- Supports SMART self-monitoring features
- Supports expansion ROM add-on features
- Management tools included