Securitex Industrial Mobile Digital Video Recording System
SIMDVRS
using the IDE flash Disk as recording media.

WHY IDE Flash Disk!!!!!
G-shock specification……Military application

High-Speed Industrial CompactFlash

Industrial CompactFlash Card uses our proprietary patented high speed flash controller and NAND-Type flash memory devices, leading to it's remarkable performance, reliability, durability, and is available in capacities from 256MB to 6GB unformatted. Using an embedded IDE controller, the IDE Flash Disk provides full IDE compatibility and are ideal replacements for standard IDE hard disks

Compliant with ISA (Industrial Standard Architecture) bus interface standard, the Industrial CompactFlash card performs sequential read/write for each sector (512 bytes) count. It also conforms to CompactFlash Specification and is designed with precision mechanics to enable host devices to read/write from the CompactFlash interface to flash media. It can operate with a 3.3V or 5V single power from the host. IDE Flash Disk features low power consumption, high capacity storage and contains no moving parts which are the primary cause of failure and electro-mechanical delays in conventional hard drives. They have a standard 44-pin IDE interface which makes it an easy replacement for standard IDE hard disk drive.

Industrial CompactFlash Card provides an extraordinary high-performance and high-reliability memory medium for PC, Embedded PC, or any other electronic application which can benefit from the rewards of using flash. CompactFlash card has been approved through various compatibility tests to be used in numerous portable desktop and notebook computers as well as personal handheld devices such as handheld audio and data recorders, PDA's, Palm Sized PC's, Handheld PCs, and Auto PCs under industrial environments. IDE Flash Disk operates efficiently in harsh environments and under rugged usage. It is resistant to shock and vibration, thus making it the optimal solution for industrial, transportation, aerospace and military applications.

Features:
- PC Card Compliant
- Conforms to CompactFlash Standard
- Compatible with PCMCIA ATA Specification
- Supports CIS implemented with attribute memory
- Compatible with all PC Card Services and Socket Services
- PCMCIA ATA / IDE Interface
- ATA command set compatible
- Support for 8-bit or 16-bit host data transfer
- Program and auto-wait-state initiation
- Compatibility with IORDY supporting host
- Compatible with host ATA disk I/O BIOS
- DOS/Windows file system utilities and application software
- Extremely Rugged and Reliable
- Advanced defect block management
- Support background erase operation
- 3.3/5 Volt Power Supply, very low power consumption
- Zero Power Data Retention
- Internal self-diagnostic program operates at Vcc power on

- Auto sleep mode
- High reliability based on internal ECC function
- Supported access Modes:
    - Memory Card Mode
    - I/O card mode
    - True IDE mode
        - PIO Mode 4
        - UDMA Modes 2 and 4
- MTBF: More than 1,000,000 power on hours
- Endurance: More than 1,000,000 write erase cycles for any sector
- Shock: 3,000-G (Max.)
- Vibration: 30-G (Peak-to-peak maximum)
- Operating Temperature:
    - Commercial Temperature: 0°C to 70°C
    - Extended Temperature: -20°C to 85°C
    - Industrial Temperature: -40°C to 85°C
- Fully Ruggedized with precision metal housing