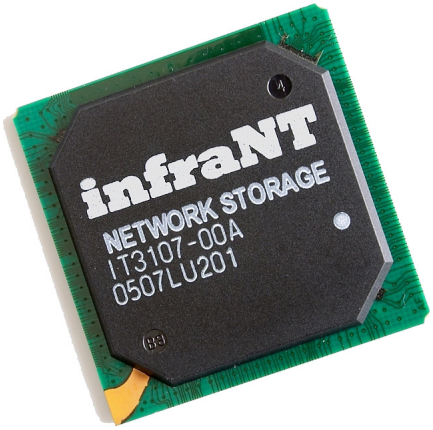
INSTANT STORAGE

INFRANT TECHNOLOGIES

IT3107 NETWORK STORAGE PROCESSOR

Gigabit Ethernet + 4 Serial ATA + Hardware RAID 0/1/5

Infrant's Network Storage Processor, supporting Serial ATA hard disk interface, Gigabit Ethernet, and RAID 0/1/5 redundancy, addresses the emerging - network storage appliance market for file sharing, backup, and digital media applications. The highly integrated system-on-chip architecture of IT3107 aims to enable network storage solutions such as NAS appliances to broader markets of departments, workgroups, offices, and home networks.



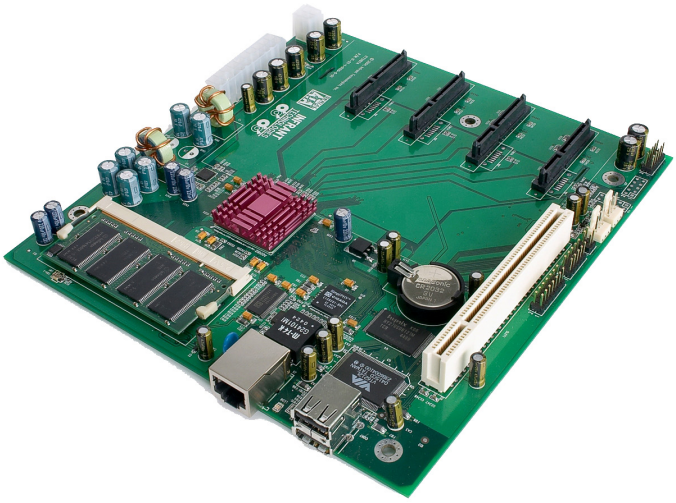
Features

- 32-bit RISC CPU
- Four Serial ATA Channels
- Hardware RAID 0/1/5
- Gigabit Ethernet MAC supporting Jumbo Packets
- 64-Bit DDR-SDRAM Interface
- PCI Host Controller
- DataJunction™ DMA
- Diskless Boot using NAND Flash
- TWSI Interface
- JTAG Boundary Scan
- 449-pin PBGA
- 1.5V Core, 2.5V DRAM, 3.3V IO

Order Information

Model Number	Package	Description
IT-01-1-0324-J-01	PBGA-449	4 ch SATA NSP IT3107 (Pb-Free)

Application Board



SunDance Board

NAS System Board featuring IT3107 with Gigabit Ethernet, four SATA channels, hardware RAID 0/1/5.

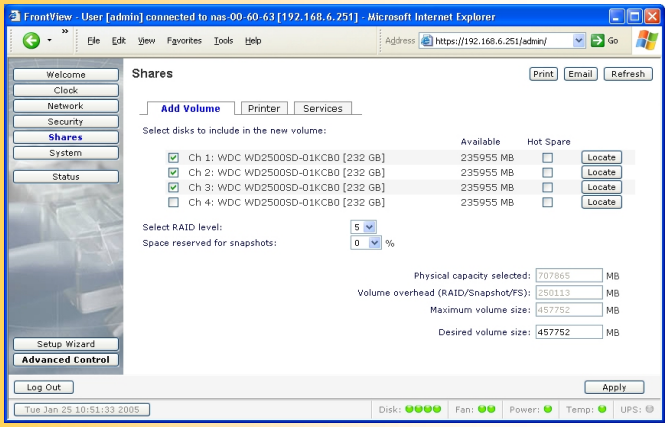
SunDance Board is compatible with ATX and flex-ATX chassis, measuring 7.50" x 6.69". Board features include NAND Flash for diskless boot, one DDR-SODIMM, optional USB 2.0 controller with two ports, one PCI slot, four SATA connector, and ATX power connector. The board embeds hardware monitoring circuit for fan and temperature for high reliability system. Wireless networking and printer server may be supported through PCI or USB.

Order Information

Model Number	Package	Description
IT-07-1-0100-0-02	ATX 7.50"x 6.69'	4 ch SATA, GigaE, RAID 0/1/5 System Board

FrontView™ Web-Based Management

FrontView is the system management tool for NAS administration with customizable GUI and plug-in support. By using a web browser, user is able to set up RAID configuration, manage user access and disk quota, and monitor system conditions such as temperature, voltage and failure notifications.



ADVANCED NAS FEATURES

Journal File System

Journaling is a method of insuring the consistency of file system even in the presence of power failures or unexpected reboots. This feature allows fast crash recovery of a large file system.

Logical Volume Management

LVM supports enterprise level volume management of disk and disk subsystems by grouping arbitrary disks into volume groups. The total capacity of volume groups can be allocated to logical volumes, which are accessed as regular block devices. This feature allows disks to be expanded without rebooting the system.

Snapshots

Snapshots allow consistent backup to be performed by making an exact read-only copy of a logical volume, frozen at some point in time, while applications continue to change the data on the logical volume.

Diskless Boot

System boot is from NAND flash and is independent of hard disk image.

RAIDiator Software Features

RAID

- RAID Level 0
- RAID Level 1
- RAID Level 5
- Standby Spare

File System

- Journal
- User/Group Quotas

File Services

- Microsoft Networks (CIFS/SMB)
- UNIX (NFS v2 and v3)
- Apple Mac (AFP)
- Internet (HTTP/SSL)
- File Transfer Protocol (FTP)

Network Security

- Share-level Passwords
- User and Group Authentication
- Windows Domain Active Directory Service (ADS)
- User/Group/Host Restrictions
- Secure Socket Layer (SSL)
- Windows ACL
- Encrypted Network Logins

Network Client Types

- Windows 98SE/NT/2000/Me/XP
- Macintosh OS 9.x/10.x
- Linux
- FreeBSD
- Solaris

IP Address Assignment

- Static
- DHCP Client
- DHCP Server

System Management

- FrontView ™ Web-based Management
- RAIDar Auto-Discovery Utility software
- Setup Wizard
- SNMP
- Enclosure Monitor
- Email Alert
- Multi-lingual Support
- Integrated Update Agent

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