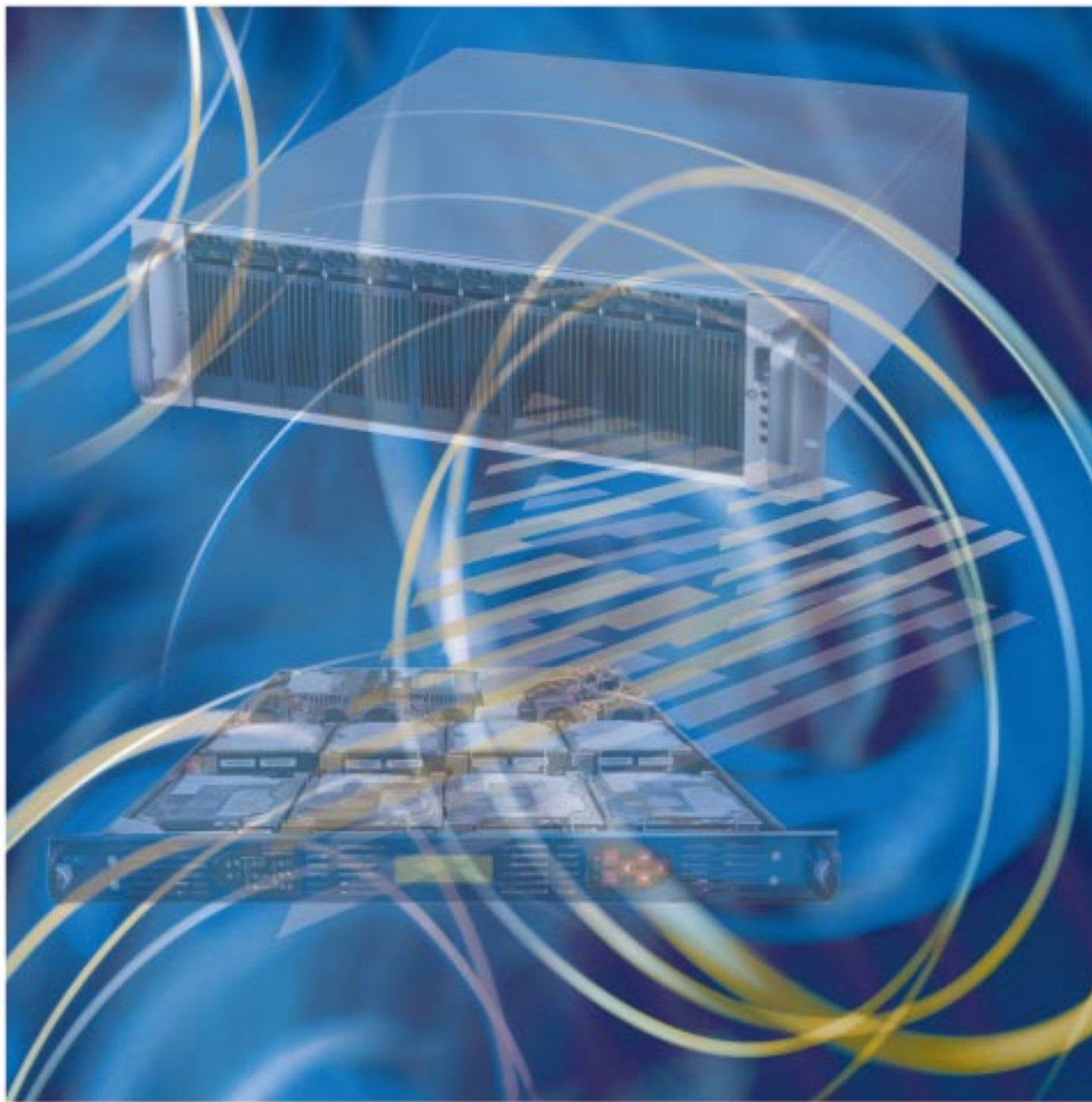


# ***AMI Storage Solutions for the Integrator***

*1U and 3U Storage Solutions for NAS, RAID Enclosures and JBOD*



*www.ami.com*

AMI offers a complete line of storage solution for integrators, including its custom chassis, backplanes and optional NAS controller and software. These advanced solutions are ideal for JBOD, NAS, RAID enclosures or other storage applications.

## Storage Solutions Line Summary

### StorTrends 1108 Product Line Description

StorTrends 1108-J = 1U/8 Drive Ultra160 SCSI Redundant Hot Swap Drive Unit

StorTrends 1108-N = StorTrends 1108-J + Indium

StorTrends 1108-P = StorTrends 1108-N + StorTrends NAS Software

### ServTrends 1100 Product Line Description

ServTrends 1100-N = Multi-Purpose Server Appliance Enclosed Around the Indium

ServTrends 1100-P = ServTrends 1100-N + StorTrends NAS Software

### StorTrends 1312 Product Line Description

StorTrends 1312-J = 3U/12 Drive Ultra160 SCSI Redundant Hot Swap Drive Unit

StorTrends 1312-N = StorTrends 1312-J + ServTrends 1100-N

StorTrends 1312-P = StorTrends 1312-N + ServTrends 1100-P

**Stats:** NAS & Storage Area Networks (SAN) will represent about 50 percent of all total storage revenue in 2002, with NAS reaching about \$10.6 billion.

**Definition:** NAS is a less expensive, less complex file server with substantially more storage capacity that offers high performance, high availability, high scalability and a low total cost of ownership (TCO).

**AMI Offering:** Integrators seeking a total storage solution can look to AMI, a leading storage solution provider. AMI offers an array of backplanes, software and motherboard and solutions. Its StorTrends 1108 - 1U/8 drive and 1312 - 3U/12 drive storage solution family also features its custom-designed StorTrends NAS software and the ServTrends 1100 multi-purpose server appliance sled chassis enclosed around the Indium embedded controller. \*IDC

## StorTrends 1108-J

### 1U with Eight Ultra160 SCSI Hot Swappable Drive Bays

Eight Hot Swappable Ultra160 SCSI Drive Cradles

Three Hot Swappable Dual Unit Fans

Two Hot Swappable Load Sharing Power Supplies

All Drives Mounted with Patent-Pending "eZswap" Hard Drive Replacement Mechanism: new drives are installed by simply inserting them straight out of the box -- without screws, rails or carrier assemblies -- and then are latched in place with no mounting accessories or assembly. To replace a drive, the old drive is unlocked, removed and a new drive installed and locked in place in a matter of seconds

Ideal for Use with External RAID Controllers (RAID Not Included) LCD and Control Buttons Provide an Alternate Method for Setup, Maintenance and Error Notification

Various LEDs Provide Status for System States including Power, Network and Disk Usage

Separate LED Helps Identify Failed Units within Large Rack-Mounted Environments

17" W x 1.7" H x 30" D Fits Standard 19" Equipment Racks Total Weight without Drives = 37.2 lbs and total weight

without Drives, Slides and Brackets = 32.5 lbs.

Provides Superior Thermal Management

Mounted on Rails, with Hinged Cover for Fast Access

### 1108 Uses Two Backplanes, the 904 and 905: Backplanes (Series 904)

Four Ultra160 Compliant, Ultra320 Ready Slots, Single Channel Horizontal (In-Line) Mounted Drives for 1U Rack Chassis Implementation

Auto Termination and Clustering Support

Hot Swap Drive Support with Individual Power Control to Each Slot

Supports SAF-TE Version 1

Asynchronous Wide SAF-TE Processor

Activity and Status

LEDs for Every Slot

Global LEDs for

Activity, Failure and Rebuild

Supports Intelligent Platform Management Interface (IPMI) v0.9 and v1.0



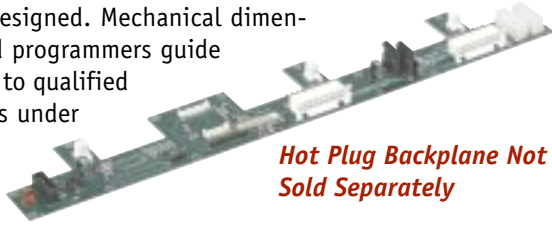
Drives pictured only shown for clarity



Hot Plug Backplane Not Sold Separately

**(Series 905)**

Features Power and Fan Control with No Drives  
Includes Power Management for use in a 1U with the 904  
*Note:* Backplanes sold separately require case to be custom designed. Mechanical dimensions and programmers guide available to qualified customers under an NDA



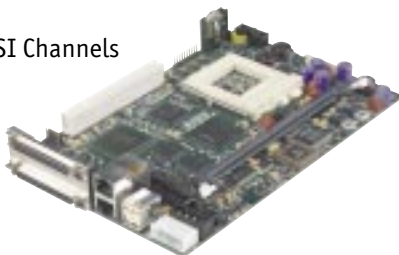
*Hot Plug Backplane Not Sold Separately*

# StorTrends 1108-N

**The 1U/8 Drive Solution Includes the Addition of the Indium Controller (1108-J + Indium = 1108-N)**

**Indium (Series 803) Features:**

The tightly integrated Indium server appliance combines AMI's expertise in board, firmware and OS environments  
Its architecture provides a scalable, high-performance platform that addresses many applications, including NAS, web servers and other embedded environments  
Specially Designed for Server Appliances, the Indium Maximizes the Price/Performance Equation for 1U Systems  
Hardware Health Monitoring for Temperature, Voltages and Fan Speeds  
Supports Single Socket 370 Celeron/Pentium® III CPU with 100 MHz Front Side Bus (FSB)  
Intel® 810E Chipset  
One DIMM Supports up to 256 MB 100 MHz SDRAM  
Dual On-Board 10/100 Mbit LAN Support  
Dual On-Board USB Support  
Dual On-Board Ultra2 LVD SCSI Channels  
Small Footprint: 5.5" x 8.5"  
Ideal for 1U, 2U or 3U Chassis Environments  
Total Weight with Drives, Slides, Brackets and cables = 48.4 lbs



*Indium Embedded Controller Can Be Sold Separately*



**The 1108 in a 1U Form Factor High-Density Server Example:**

The 42-inch high rack includes five StorTrends 1108 units. If each unit is populated with eight 73 GB drives, the capacity of the five units would be 2.85 Tera Bytes (TB).

If all 24 units were populated, the rack's combined capacity would be 13.69 TB.

# StorTrends 1108-P

**The 1108-P 1U/8 Drive Solution Includes the Addition of the StorTrends Custom-Designed NAS Software Version 1.0 (1108-N + Software = 1108-P)**

**Software Features:**

AMI Designed StorTrends NAS Software v1.0 (Optional)

Disk Quota: User Based  
Client Support: SMB/CIFS for Microsoft, NFS for Unix and Linux



*Not Sold Separately*

All AMI NAS Software Resides on a Network Upgradable Flash Memory Device, Leaving all Hard Drives 100 Percent Available for User Data

Based on FreeBSD and Optimized for the Indium Resides on a Network-Upgradable Flash Disk and is Optimized for AMI Hardware

Complete Configuration and Management via Web Browser  
Error Logging and Notification via Email or SNMP  
Industry Standard Software Utilized Throughout Design to Allow Full Network Interoperability. TCP/IP, DHCP, DNS, NTP, SMTP, SNMP and RAID 0, 1, 5 Support  
NDMP Support for Backup

**AMI is the only company that provides a complete hardware and software storage solution designed by a single source. This includes AMI's BIOS, motherboard, backplanes, chassis and software, which allows AMI to carefully address RAS (Reliability, Availability and Serviceability), performance and usability.**

**Traditionally, file storage has been provided by standard off-the-shelf servers and operating systems. Now with AMI, users can add additional storage to their networks quickly, easily and safely. AMI works hard to make it simple and affordable.**

**All AMI software resides on a network-upgradable flash memory device, leaving all hard drives 100 percent available for user data.**



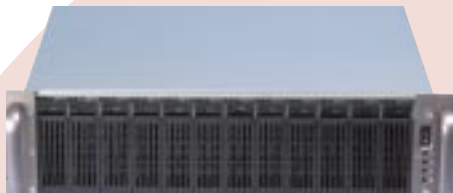
# StorTrends

## 1312-J

### 3U with 12 Ultra160 SCSI Hot Swap Drive Bays

12, 1-Inch High Hot Swappable Drive Bays

Available in Standard Two-Channel or Optional Four-Channel Configurations



Ultra160 SCSI Compliant and Ultra320 Ready Backplanes  
Ideal for Use with External RAID Controllers (RAID Not Included)  
Two Hot Swappable Dual Unit Fans  
Three Hot Swappable Power Supplies  
LEDs Indicate Power, Power Failure, Fan Failure and Temperature  
16.63" W x 5.20" H x 19" D  
Weighs 50.4 lbs with Drives; 34.8 lbs without Drives

### 1312 Uses the Series 906 Backplane:

#### Two AMI Backplanes (Series 906)

Auto Termination

Six Ultra160 Compliant, Ultra320 Ready Slots, Single Channel

Clustering Support

Supports SAF-TE Version 1.1

Asynchronous Wide SAF-TE Processor

Hot Swap Drive Support with

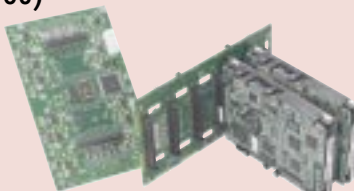
Individual Power Control to Each Slot

Activity and Status LEDs for Every Slot

Global LEDs for Activity, Failure and Rebuild

Supports Intelligent Platform Management Interface (IPMI) v0.9 and v1.0

*Note:* Backplanes sold separately require case to be custom designed. Mechanical dimensions and programmers guide available to qualified customers under an NDA.



**Hot Plug Backplane**  
**Not Sold Separately**

# StorTrends

## 1312-N

**The 3U/12 Drive Solution Includes the Addition of the ServTrends 1100 (1312-J + ServTrends 1100 = 1312-N)**



**Back of 1312-N & 1312-P**

### ServTrends 1100 Features:

Multi-Purpose Server Appliance is a Custom-Built Sled Chassis with a Membrane Keypad, LCD Display and LEDs Enclosed Around the Indium for the StorTrends 1312-N and 1312-P

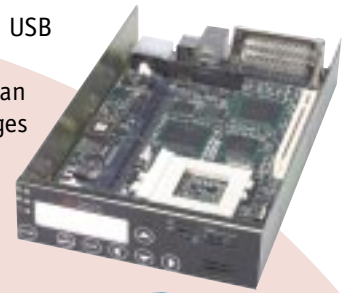
Supports Single Socket 370 Celeron/Pentium® III CPU with 100 MHz FSB

Intel® 810E Chipset

One DIMM Supports up to 256 MB 100 MHz SDRAM

### 3U - StorTrends 1312

Dual On-Board: 10/100 Mbit LAN, USB and Ultra2 LVD SCSI Channels  
Hardware Health Monitoring for Fan Speeds, Temperature and Voltages  
Small Footprint: 5.5" x 8.5"  
Ideal for 1U, 2U or 3U Chassis Environments



*Note:* The ServTrends 1100 solution can be:

- integrated into an off-the shelf case that supports standard 5¼ inch form factor CD-ROM drive bays, reducing time-to-market (TTM) for system integrators and resellers
- added into a user's own NAS device, CD server, CD-ROM tower, CD/jukebox or optical disk library
- incorporated as part of AMI's storage solution to power its StorTrends 1312-N and 1312-P products

ServTrends  
**1100**

# StorTrends

## 1312-P

**The 1312-P 3U/12 Drive Solution Includes the Addition of the StorTrends Custom-Designed NAS Software Version 1.0 (1312-N + Software = 1312-P)**

### AMI Designed StorTrends NAS Software v1.0

Disk Quota: User Based

Client Support: SMB/CIFS for Microsoft, NFS for Unix and Linux

All AMI NAS Software Resides on a Network Upgradable Flash Memory Device, Leaving all Hard Drives 100 Percent Available for User Data



**Not Sold Separately**

Based on FreeBSD and Optimized for the Indium Resides on a Network-Upgradable Flash Disk and is Optimized for AMI Hardware

Complete Configuration and Management via Web Browser Error Logging and Notification via Email or SNMP

Industry Standard Software Utilized Throughout Design to Allow Full Network Interoperability. TCP/IP, DHCP, DNS, NTP, SMTP, SNMP and RAID 0, 1, 5 Support  
NDMP Support for Backup

**American Megatrends**  
**STORAGE INTELLIGENCE**

[www.ami.com](http://www.ami.com)

American Megatrends Inc. 6145-F Northbelt Parkway,  
Norcross, GA 30071-2976 • Sales (800)828-9264  
Main (770)246-8600 • Fax (770)246-8790

#### AMI International Offices

Germany: [49]89-9699-9510 • Fax [49]89-9699-9519

Japan: [81]3-5812-0020 • Fax [81]3-5812-0022

Taiwan: [886]2-2716-0036 • Fax [886]2-2718-1121

Korea: [82]2-569-5689 • Fax: [82]2-569-4689

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