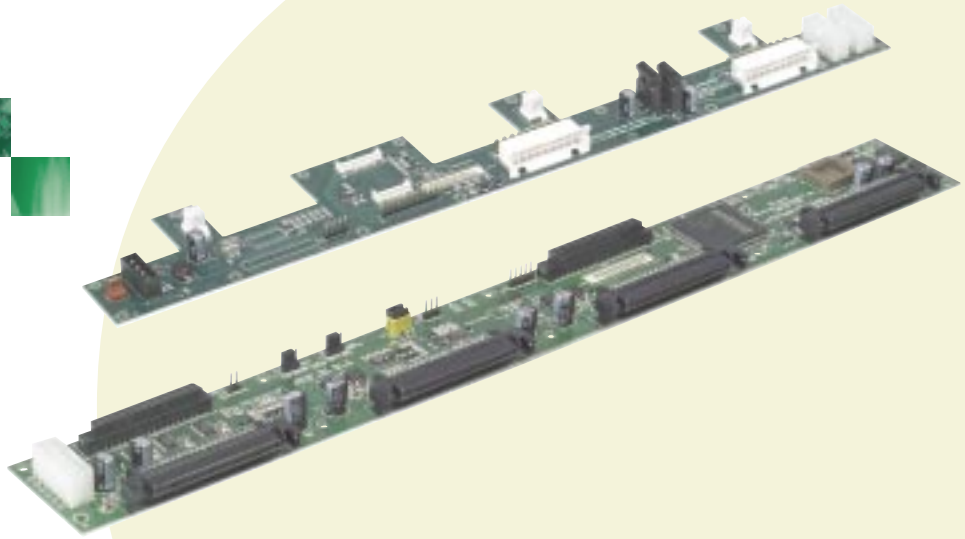
Storage Backplanes

(904) and (905 Power/Fan Control Backplane)

Single channel backplane for use in a 1U chassis



IPMI v0.9 and v1.0 Support

Building on its expertise in storage and motherboard technologies, AMI now offers custom backplane designs. AMI's state-of-the-art backplane designs maximize signal integrity, optimize artwork layout and support advanced clustering, auto-termination and isolation capabilities.

Key Standard Design Features:

- Four Ultra160 Compliant, Ultra320 Ready Slots, Single Channel
- Horizontal (In-Line) Mounted Drives for use in 1U Rack Chassis Implementations
- Auto Termination
- Clustering Support
- Supports SAF-TE Version 1.1
- Supports Intelligent Platform Management Interface (IPMI) v0.9 and v1.0
- Hot Swap Drive Support with Individual Power Control to Each Slot
- Asynchronous Wide SAF-TE Processor
- Activity and Status LEDs for Every Slot

Key Custom Design Capabilities:

- Superior Layout and Placement Strategies Ensure Signal Integrity and Minimize Stubs
- Expertise in High Performance SCSI and Fibre Design
- Experts in SCSI PCB Impedance Routing and SCSI System Architecture

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AMI Offers Advanced Backplane and Custom Design Storage Solutions

AMI designs and develops key high speed system components, preserving signal integrity with increasing data rates, bus lengths and loading. AMI's experienced design staff understands the latest industry innovations and uses the tools and techniques needed to design high reliability systems.

SCSI's evolution from a low speed narrow interconnect to a high speed wide bus is a challenge to equipment vendors. Designing high speed buses that travel over several printed circuit boards and cables requires knowledge beyond traditional artwork layout. AMI developed signal routing and layer usage strategies that optimize signal integrity with minimal manufacturability sacrifice.

With system complexity on the increase, AMI ensures the highest level of interoperability when more of the system components are designed and tested by AMI.

AMI designs are carefully placed and routed for the best signal flow. Architecting SCSI systems that operate flawlessly with the latest Ultra160 and Ultra320 specifications requires minimizing stubs, accurate spacing of loads and connectors, bus loading limitations and signal propagation.

Testing

AMI's experience and expertise in design verification ensures that signal integrity will not cause any issues in complex systems. AMI uses sophisticated test equipment to qualify designs. Time Domain Reflectometer (TDR) verifies impedance within specifications and high speed data digital storage oscilloscopes verify skew budgets and signal quality.

Enclosure Management

AMI motherboards and MegaRAC remote access companions support IPMI. The backplane combines the SAF-TE of the controller with the IPMI of a system to achieve the highest level of enclosure management. AMI can also make custom modifications for customers.

Standard Backplanes

Series 904

Four Ultra160 Compiant, Ultra320 Ready Slots, Single Channel
Horizontal (In-Line) Mounted Drives for use in 1U Rack Chassis Implementations
Auto Termination
Clustering Support
Supports SAF-TE Version 1.1
Supports Intelligent Platform Management Interface (IPMI) v0.9 and v1.0
Hot Swap Drive Support with Individual Power Control to Each Slot
Asynchronous Wide SAF-TE Processor
Activity and Status LEDs for Every Slot

Series 905

Power Management for use in a 1U with the 904
Power and Fan Control

AMI Backplane Design Services

SCSI

Support for Fastest Ultra160 Drives
Superior Layout and Placement Strategy Ensures Signal Integrity and Minimizes Stubs
Experts in SCSI PCB Impedance Routing and SCSI System Architecture
Design Simulation Tools to Minimize Skew, Crosstalk and Reflections
Experts in SCSI Analysis and in Solving Issues from Bus to System Level
SAF-TE, SES and IPMI Enclosure Management

Hot Swap

Slot Power-Down Possible from Firmware
Cost-Effective Hot-Insertion Glitch Prevention Circuitry

Enclosure Management

SAF-TE, IPMI and SCSI Enclosure Services (SES) Support
Fan Speed and Power Supply Monitoring
Temperature Monitoring and Intrusion
Fault, Activity and Rebuild LED Outputs

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