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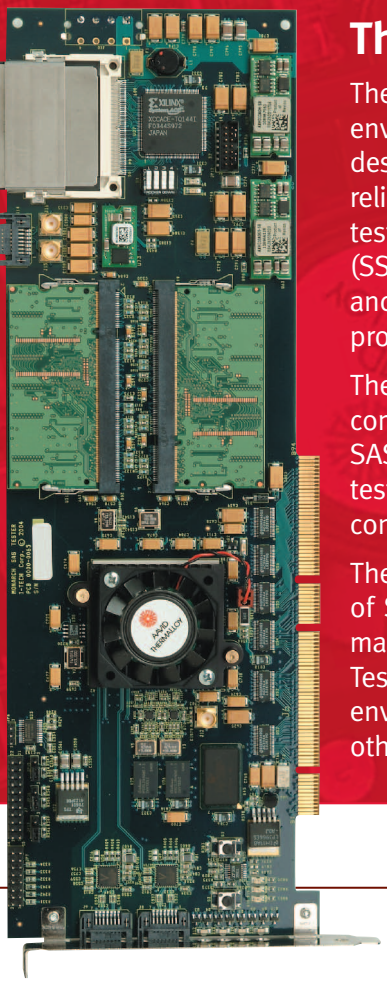
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The Monarch™ SAS Tester



The Monarch SAS Tester can be used across a network or from a work station, adapting to your specific needs and environment.

The Preeminent SAS Tester in the Storage Industry

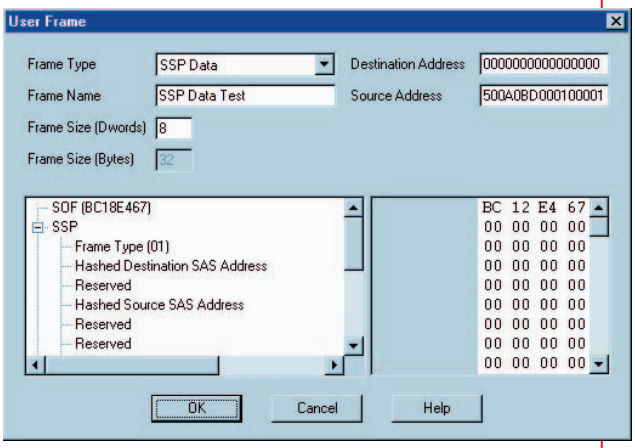
The challenges of testing serial attached SCSI (SAS) server and enterprise class environments and devices require a comprehensive test solution that ensures designers, developers, and manufacturers maximum product performance and reliability. The Monarch SAS Tester meets these testing needs by providing low-level testing of legal and illegal serial management protocol (SMP) and serial SCSI protocol (SSP) frames and data patterns, out-of-band (OOB) and speed negotiation signals, and device powerup and reset sequences for verifying conformance to the SAS protocol specification.

The Monarch SAS Tester is designed around a 64-bit PCI board, which is 32-bit compatible, supporting selectable transfer speeds of 1.5G and 3G. You can install the SAS Tester in a host PC or purchase it installed in a PassPort (a compact portable test system) that can be connected to the network via a 10/100 Base-T Ethernet® connection.

The Monarch software provides uncompromised capability for meeting a wide range of SAS testing requirements. The interactive menu guides you through function, macro, and compiled test editing and execution. The real power of the Monarch SAS Tester, however, is in the software development kit (SDK) for customizing the test environment. The Monarch SAS SDK provides more development capability than any other tester in the industry.

Customer-Driven Benefits

- The Monarch SAS Tester provides low-level test criteria at the frame and primitive level. The ability to create and generate data and then evaluate the device's response makes this test solution the most versatile in the industry. The scope of test possibilities is limited only by the ingenuity of the user.
- Tests created on the I-TECH EAGLE™ Tester can be ported to the Monarch SAS Tester through built-in function mapping. I-TECH builds a migration path into every new generation of tester, protecting your investment in test development.
- The Monarch SAS Tester allows you to run multiple testers simultaneously, and as a result, test more product in less time.
- For a complete test solution and the ability to analyze the data generated, combine the Monarch SAS Tester with the PowerFrame™ Storage Test System and SAS PowerPak™ to capture and display SAS data in a customized trace view.



Using the Frame Editor, you can customize legal and illegal frames for sending to the product under test.

- I-TECH Professional Services can extend the power and functionality of the Monarch SAS Tester by creating customized compiled tests and updating your existing tests to conform to industry changes, thereby protecting your investment.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

A Tester Configuration for Any Application

- **Monarch SAS Development System**
  The development system includes the SDK and the Monarch interactive menu for automated testing. It is the most fully configured, comprehensive system.
- **Monarch SAS Interactive System**
  The interactive system provides the ability to execute compiled tests and is ideally suited for debugging and regression testing. Like the development system, the interactive system includes the Monarch interactive menu.
- **Monarch SAS Manufacturing System**
  The manufacturing system has the same hardware capability as the development and interactive systems without a software interface. Tests created on the development system can be run on the manufacturing system.

Monarch SAS Hardware Features

- Selectable data transfer rates of 1.5G and 3G.
- 128 MB of onboard buffer memory.
- Hardware-supported data compare at the board level.
- A 32-bit onboard processor for high-speed control of SAS protocol removes task-intensive operations from the host.
- A 64-bit onboard data pattern generator.
- The onboard flash allows you to upgrade the firmware in the field.

Monarch SAS Interactive Menu Features

- Easy-to-use menus and navigational structure.
- Time-saving editors for buffers, frames, and macros.
- Real-time reporting of device status.
- The ability to loop SCSI command execution for iterative test requirements.
- Execution of functions, macros, and compiled tests from within the user interface.

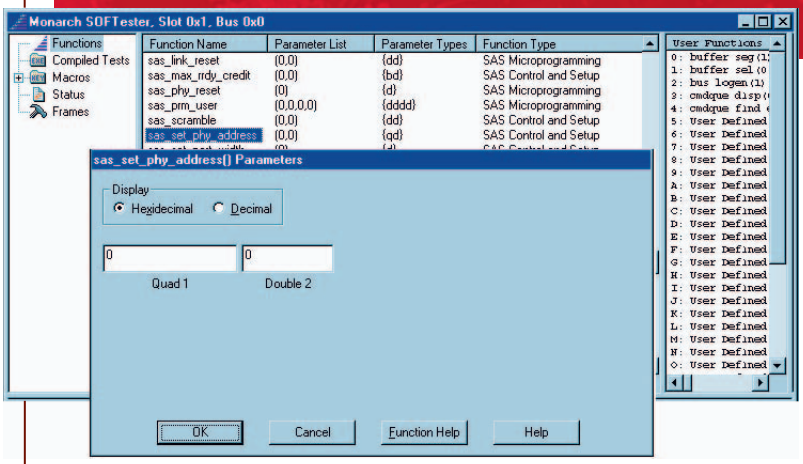
The Monarch SAS SDK...

Herein lies the power

Customize any test procedure to meet specific performance or repeatability requirements using Microsoft C++, a nonproprietary software platform.

Features include:

- An extensive function library for modifying tests for setup and control, sending SAS frames, manipulating buffers, and issuing SSP commands.
- The ability to easily set parameters for SAS OOB. Proper OOB functioning depends on the recognition of specific electrical patterns for certain time periods. Customizing these time periods enables you to test many edge cases of device OOB sequencing.
- High-level command queuing for using the total bandwidth of the tester. This enables you to send more than one command without having to wait for a response, which is the most efficient way to use your time and your tester.
- High-level support for SCSI-2 and SCSI-3 command stacking, queuing, and command linking and SCSI primary, block, and stream commands, allowing you to test your devices to ensure that they are running at their full command capacity.



The SAS interactive menu allows you to quickly and easily edit an individual function.

Our Guarantee to You

Free technical support and free software upgrades are available for the life of the product.

I-TECH

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