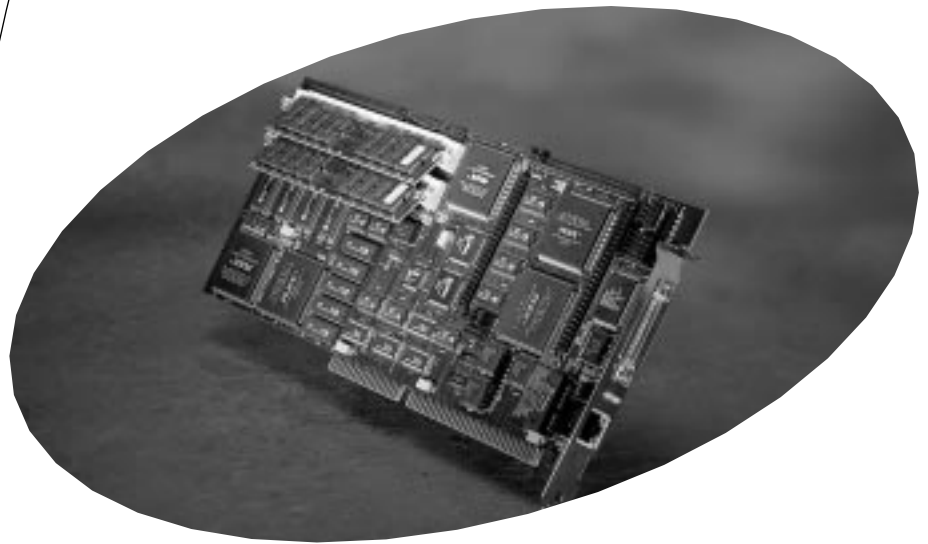


CENTURY MEDIA MODULE VERSION 2

Custom 10/100 Ethernet Analyzer NIC

Product Features

- Silicon-accelerated hardware engine captures every packet under any network load using any user-defined filter.
- Real-time packet decode and analysis.
- Filter on any part of a packet; up to eight filters may be applied to every packet.
- Real-time packet save directly to disk.
- Packet slicing with 32, 64 and 128 byte options preserve buffer space.
- Auto-sensing 10/100 RJ-45 port supports 10Base-T and 100Base-TX. MII connector supports additional media through an external transceiver.
- Two CMM2s can provide a single, seamless view of full-duplex network traffic.
- Support for up to 16 CMM2s in a single PC.
- Captures and counts 10/100 Ethernet error packets.
- Supports simultaneous capture and transmit operation.
- Industry's most precise timestamp resolution, 35ns.



Century Media Module Version 2 (CMM2) and Surveyor software form the industry's first integrated analyzer plus monitor incorporating simultaneous real-time network monitoring and line-rate packet capture. CMM2 is the ideal hardware platform to troubleshoot network problems, monitor 10/100 networks and test 10/100 network equipment before deployment in a production environment.

Analysis In order to accurately and effectively troubleshoot a network problem an analyzer must never drop a packet. CMM2's revolutionary silicon-accelerated hardware engine captures every packet under any network load on any 10/100 Ethernet network. With a capture buffer ranging up to 64MB, CMM2 can be counted on to collect the information needed to resolve a problem. Real-time packet decode and analysis provide immediate troubleshooting assistance. Real-time packet save directly to disk provides a way to capture a large amount of information needed to troubleshoot a problem over a longer period. Hardware-based filtering enables up to eight filters to be applied to any part of a packet. This filtering mechanism captures the desired packets without diminishing capture performance.

Monitoring CMM2 is also a monitoring tool that can be used to observe any 10/100 network in real-time as well as baseline a network over long periods. With its 512K real-time buffer, CMM2 can collect MAC, network, and application layer statistics, and present several real-time views of network traffic.

Testing As a test tool, CMM2's capability as a traffic generator is unparalleled. Not only can it generate packets ranging from 8 bytes to 15,000 bytes, it can transmit at full line-rate on 10Mbps or 100Mbps networks. CMM2 can also capture and transmit simultaneously, making it the ideal tool to test the full-duplex capability of a network device. With an optional external trigger module, CMM2 can trigger a logic analyzer to debug a network device during development. With the industry's most precise timestamp resolution of 35 nanoseconds, CMM2 provides the necessary accuracy to test any 10/100 network device.



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CENTURY MEDIA MODULE VERSION 2

Technical Specifications

Operational Specifications

Network Ports	Auto-sensing 10/100 Ethernet RJ-45 port, MII supports additional media
LED Indicators	Link, 10/100 network connection
Capture/Transmit Buffer	Up to 64MB options
Real-time Buffer	512KB
Trigger Module	Add-on component provides external trigger, BNC connectors

Physical Specifications

Bus	3/4-sized ISA board
Height	4.8 in/12.1 cm
Width	10.0 in/25.4 cm
Weight	0.5 lb/1.1 kg
Power Consumption	3.5A

System Requirements

System	Pentium class system
Memory	32MB minimum
Disk Space	15MB
Operating System	Windows 95 or NT 4.x
Software	Surveyor and/or Century Tool Kit
Max no. of interfaces	Up to 16 interfaces may be installed in one PC

Interface Functionality

Capture Performance	10Mb: >14,880pps 100Mb: >148,809pps
Capture Filter	Hardware-based, up to 8 filters may be applied on a single packet with no performance effect
Error Packets	Captures and counts all 10/100 Ethernet error packets
Packet Slicing	32 byte, 64 byte, 128 byte, full packet options
Timestamp Resolution	35 nanoseconds
Full-Duplex Receive	Synchronizing two interfaces provides a single, seamless view of full-duplex network traffic
Capture/Transmit	Support for simultaneous capture and transmit
Transmit Performance	10Mb: >14,880pps 100Mb: >148,809pps
Transmit Functions	Generate packets from 8 bytes to 15,000 bytes, transmit error packets, transmit packets from capture buffer

Century Media Module Version 2 Architecture

Shomiti Systems Incorporated

1800 Bering Drive

San Jose, CA 95112

1-888-SHOMITI

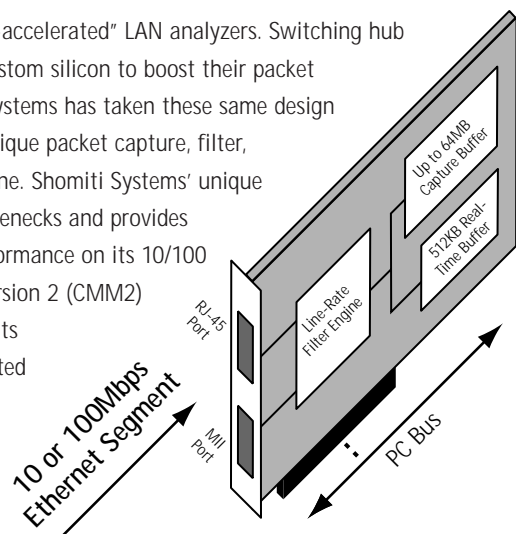
408-437-3940

Fax: 408-437-4041

www.shomiti.com

email: info@shomiti.com

Shomiti Systems pioneered "silicon-accelerated" LAN analyzers. Switching hub vendors saw the need to employ custom silicon to boost their packet forwarding performance. Shomiti Systems has taken these same design principles and applied them to a unique packet capture, filter, analysis, monitor and transmit engine. Shomiti Systems' unique silicon acceleration eliminates bottlenecks and provides line-rate transmit and capture performance on its 10/100 Ethernet Century Media Module Version 2 (CMM2) interface. Since each interface has its own self-contained silicon accelerated engine, multiple CMM2s can simultaneously perform line-rate capture and transmit operations in a single PC.



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