

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Curtiss-Wright / Systran SCRAMNet GT200* at our website: ***Click HERE***



SCRAMNet+



SC150 PCI

Hardware Compatibility:
PCI Specification Version 2.0

Physical Dimensions: 4.200" x 9.500"
(106.680 mm x 341.300 mm)



SC150e PCI

Hardware Compatibility:
PCI Specification Version 2.0

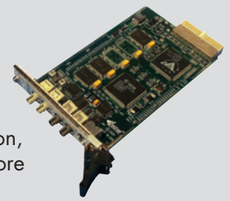
Physical Dimensions: 4.200" x 9.500"
(106.680 mm x 341.300 mm)



SC150e PMC

Hardware Compatibility:
PCI Local Bus Specification,
Rev. 2.1,
CMC IEEE P1386/Draft 2.0
PMC IEEE P1386.1/Draft 2.0

Physical Dimensions: 2.913" x 5.866"
(74.000 mm x 149.000 mm)



SC150e CPCI

Hardware Compatibility:
PCI Local Bus Specification,
Rev. 2.1, CompactPCI Core
Spec. PICMG 2.0 R3.0
CompactPCI Hot Swap
Spec. PICMG 2.1 R1.0

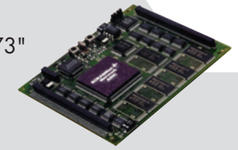
Physical Dimensions: 6.299" x 3.937"
(160.000 mm x 100.00 mm)



SC150 VME6U

Hardware Compatibility:
VMEbus Rev. C.3, ANSI/IEEE
Standard 1014-1987

Physical Dimensions: 6.299" x 9.173"
(160.000 mm x 233.000 mm)



SC150 Rehostable

Hardware Compatibility: Register/Memory Bus

Physical Dimensions: 3.300" x 4.000"
(83.820 mm x 101.600 mm)

Accessories

LinkXchange Crossbar Switch

A modular digital switch offering high-speed, low latency digital switching and media conversion with support for 2 to 16 SCRAMNet+ connections.

Fiber Optic Bypass Switch

Mechanical switch providing automatic network reconfigurationand port bypass with only a 15-to-22 millisecond delay in network operations.

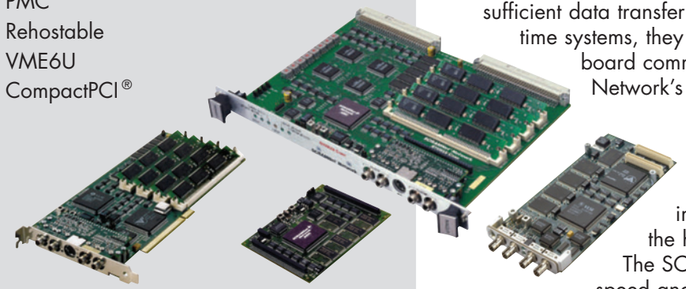
SCRAMalyzer™ Network Monitor System

The SCRAMalyzer is a port-able network monitoring system that provides critical data for easy analysis of SCRAMNet network performance.

Memory SIMMs, Media Cards and *Cables*

Additional items are available which allow users to fully deploy and customize their SCRAMNet+ Network, whether it be memory expansion, media conversion, or simply connecting the SCRAMNet nodes. Ask your representative for more details.

- Shared-Memory Communications
- 250 nSec/node Latency
- 16.7 MB/sec Data Throughput
- Coax or Fiber Optic Media Options
- Flexible Memory Size Options
- Single-Slot Solution
- Backplane Support
  - PCI
  - PMC
  - Rehostable
  - VME6U
  - CompactPCI®





SCRAMNet+

The SCRAMNet+ Network (Shared Common RAM Network) was developed to satisfy the demanding real-time requirements of high-fidelity simulations — but its capabilities extend equally well to virtually all other distributed real-time applications. Based upon a replicated shared-memory concept, the SCRAMNet+ Network is optimized for the high-speed, ultra-low-latency transfer of data among many computing platforms that are all solving portions of the same real-time problem. Its simplicity and speed are ideally suited for applications requiring a high degree of synchronization and control.

The proven SCRAMNet+ SC150 series is designed to provide the speed and deterministic performance of shared-memory while avoiding the data collisions and computer-to-computer latencies often caused by the complex, time-consuming layers of software and hardware protocols used in typical networking systems. Although standard networks may offer sufficient data transfer rates between boards for some real-time systems, they are unable to match the superior host-to-board communication achieved by the SCRAMNet+ Network's shared-memory architecture.

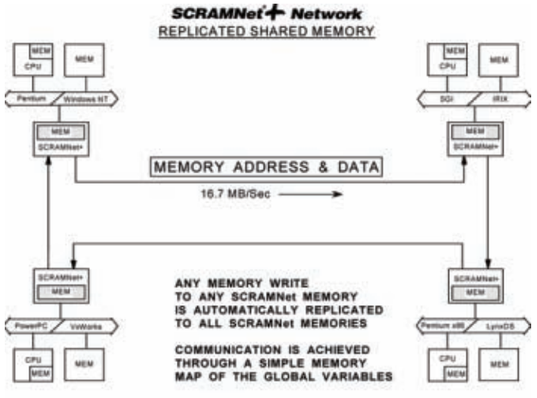
In critical real-time systems, computer-to-computer data latency is dependent on two factors: network speed and, more importantly, data throughput between the host computer and the network node. The SCRAMNet+ Network's shared-memory speed and simplicity insure that communication at every computer is optimized for minimal data latency. It virtually guarantees that all computers in the system are operating simultaneously on the same set of data.

© Copyright 2006, CurtissWright Controls, Inc.,
All Rights Reserved. MKTFS-SNI051706v2

For more information on this product or
our other high-integrity computing solutions:
Sales Phone (U.S.): 1-800-252-5601
Sales Phone (Int'l): +1-937-252-5601
Sales Info: sales.cwcembedded.com
Product Info: dayton.cwcembedded.com
www.cwcembedded.com

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

CURTISS WRIGHT Controls
Embedded Computing



To utilize the replicated shared-memory concept, distributed processes map their global data structures into the dual-port memory located on each SCRAMNet+ node. Any time an application process updates a data structure located in its local SCRAMNet+ memory, the address and data are immediately (and automatically) broadcast to all other nodes on the SCRAMNet+ Network. This automatic data transfer requires no software intervention or backplane loading, enabling the host computer to provide more processing resources to the application.

The newest addition to the SCRAMNet+ Network — the SC150e — takes full advantage of the speed and efficiency of today's computers to dramatically improve data throughput between SCRAMNet+ memory and the host computer. The SC150e boards perform memory-to-host transfers at 70 MBytes/sec. — over four times faster than other shared-memory networks.

The SCRAMNet+ Network is available with complete hardware and software support to include optional cabinet kits, passive bypass switches, network switches, cabling options, interrupt drivers, and menu-driven diagnostics for a wide variety of computer and operating systems. New tools like our SCRAMalyzer™ throughput and monitoring system make the design, implementation, and analysis of a SCRAMNet+ Network faster and easier than ever before.

Don't wrestle with non-deterministic networks and their complex software requirements. When real-time performance counts, count on the "on-time every-time" performance of the SCRAMNet+ Network!

SCRAMNet+ dual-port memory appears on the host bus as additional host memory. The host reads and writes data through one port while the network writes data to memory through a second port. Data written to memory by the host is automatically transmitted by the

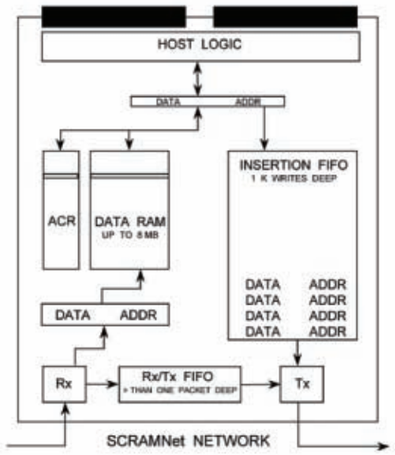
Specifications

Series Number	Environmental Requirements	Memory Sizes	Interrupts Available/ Error Detection	Transmission Medium	Performance	Memory-to-Host Transfer Rate	I/O Support												
							Bus Type	HP-UX	QNX 6.x (real time platform)	Red Hat Linux	SGI IRIX	Sun Solaris	SuSE Linux	VxWorks	Windows 98	Windows 2000	Windows Me	Windows NT	Windows Server	Windows XP	Yellow Dog Linux 2.1
SC150	Operating Temperature: 0° to 60° C, 32° to 140° F Operating Humidity: 10% to 90% (noncondensing)	1 MB 2 MB 4 MB 8 MB	Yes	Coax (up to 30 meters) Standard Fiber (up to 300 meters) Long-link Fiber (up to 3,000 meters)	150 Mbit/sec. Bit Rate 16.7 MB/sec. Network Transfer Rate 250 nsec. Min. Node Latency	Up to 16.7 MBytes/sec.	PCI	x	x	x	x	x	x		x	x	x	x	x	x	
							VME6U							x							
							Rehostable	User Defined Interface													
SC150e	Electrical: Universal +5/3.3 VDC Operating Temperature: 0° to 60° C, 32° to 140° F Operating Humidity: 10% to 90% (noncondensing)	2 MB 4 MB 8 MB	Yes	Standard Fiber (up to 300 meters) Long-link Fiber (up to 3,000 meters)**	150 Mbit/sec. Bit Rate 16.7 MB/sec. Network Transfer Rate 250 nsec. Min. Node Latency	Up to 70.0 MBytes/sec.	PCI	x	x	x	x	x	x		x	x	x	x	x	x	
							CompactPCI	x	x	x		x	x		x	x	x	x	x	x	
							PMC		x			x		x							x

* Check with a representative for specific bus specifications.
** PCI and CPCI form factors only.

Features

- SCRAMNet+ memory mapping provides an easy way to transmit data. The application simply writes data to SCRAMNet+ memory and the network immediately handles the data exchange. There's no need for complex communication protocols or additional software.
- No processor time is required to support network communications. Computing resources can be devoted to application-specific tasks.
- No token passing or polling for data is necessary. All nodes may simultaneously offer traffic on the network with no collisions, resulting in extremely low microsecond latency and deterministic operation.
- Event counter/timer with global reset provides network performance measurement and global time synchronization.
- A wide variety of different computer systems, bus architectures and operating systems can be connected in a SCRAMNet+ Network. The network will function like a single multiprocessor system, regardless of the computing platforms used.
- Memory paging allows nodes to isolate specific memory areas and their contents, so that they are available only to selected nodes on the network.
- Address-specific interrupts provide more flexibility in programming, while giving better response to individual data and network requirements.
- Data filtering increases the effective throughput on the network by replicating only the portion of SCRAMNet+ memory that has been modified, eliminating unnecessary network traffic.



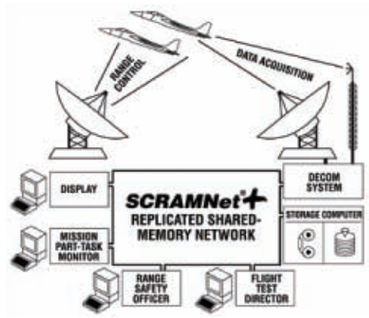
hardware to all nodes on the network. Insertion and transmit/receive FIFOs buffer the data flow to avoid the data collisions often encountered in standard networks.

The SCRAMNet+ Network's ring topology can be expanded up to 256 nodes to create a powerful multi-processor computing sys-tem, with complete host-processor and operating system independence at each node.

Applications

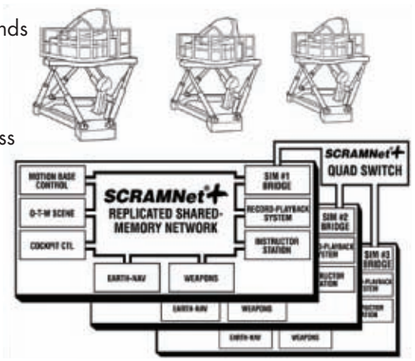
The SCRAMNet+ Network is ideally suited for applications with critical control loop timing requirements, such as simulation systems. Each SCRAMNet+ node provides the high-speed transfer of data between the control and feedback systems that may be running on many dissimilar computers in the system. Typical simulation systems include:

- Aircraft Simulators
- Missile Simulators
- Power Generation Plant Simulators
- Ship Simulators
- Land Vehicle Simulators
- Mission Planning Simulators
- Force-Level Training Simulators
- Virtual Reality Systems
- Location-Based Entertainment Systems

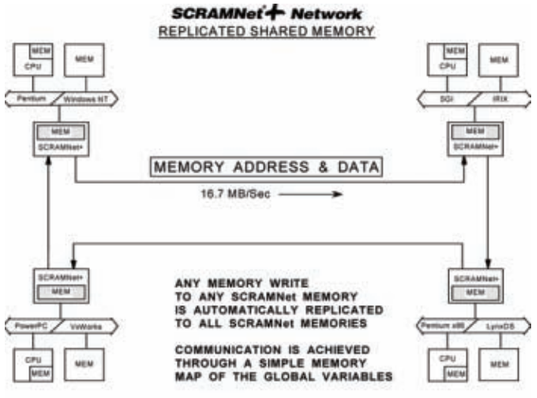


The tight control-feedback loops required by many instrumentation and control systems demand the low-latency performance of the SCRAMNet+ Network for accurate, real-time data acquisition and control. SCRAMNet+ provides the nearly-instantaneous availability of critical data that enables system evaluation and adjustment in real-time. Typical instrumentation and control applications include:

- Range and Telemetry Systems
- Flight Test
- Wind Tunnels
- Engine Test Stands
- Robotics
- Particle Accelerators
- Industrial Process Control



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



To utilize the replicated shared-memory concept, distributed processes map their global data structures into the dual-port memory located on each SCRAMNet+ node. Any time an application process updates a data structure located in its local SCRAMNet+ memory, the address and data are immediately (and automatically) broadcast to all other nodes on the SCRAMNet+ Network. This automatic data transfer requires no software intervention or backplane loading, enabling the host computer to provide more processing resources to the application.

The newest addition to the SCRAMNet+ Network — the SC150e — takes full advantage of the speed and efficiency of today's computers to dramatically improve data throughput between SCRAMNet+ memory and the host computer. The SC150e boards perform memory-to-host transfers at 70 MBytes/sec. — over four times faster than other shared-memory networks.

The SCRAMNet+ Network is available with complete hardware and software support to include optional cabinet kits, passive bypass switches, network switches, cabling options, interrupt drivers, and menu-driven diagnostics for a wide variety of computer and operating systems. New tools like our SCRAMalyzer™ throughput and monitoring system make the design, implementation, and analysis of a SCRAMNet+ Network faster and easier than ever before.

Don't wrestle with non-deterministic networks and their complex software requirements. When real-time performance counts, count on the "on-time every-time" performance of the SCRAMNet+ Network!

SCRAMNet+ dual-port memory appears on the host bus as additional host memory. The host reads and writes data through one port while the network writes data to memory through a second port. Data written to memory by the host is automatically transmitted by the

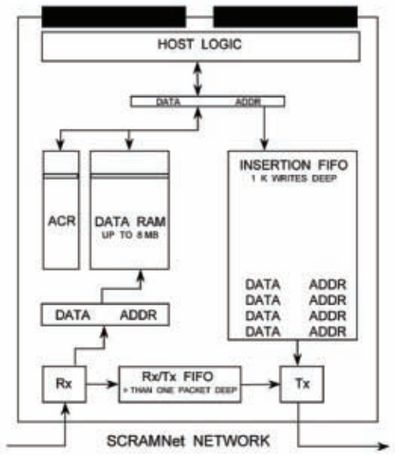
Specifications

Series Number	Environmental Requirements	Memory Sizes	Interrupts Available/ Error Detection	Transmission Medium	Performance	Memory-to-Host Transfer Rate	I/O Support												
							Bus Type	HP-UX	QNX 6.x (real time platform)	Red Hat Linux	SGI IRIX	Sun Solaris	SuSE Linux	VxWorks	Windows 98	Windows 2000	Windows Me	Windows NT	Windows Server	Windows XP	Yellow Dog Linux 2.1
SC150	Operating Temperature: 0° to 60° C, 32° to 140° F Operating Humidity: 10% to 90% (noncondensing)	1 MB 2 MB 4 MB 8 MB	Yes	Coax (up to 30 meters) Standard Fiber (up to 300 meters) Long-link Fiber (up to 3,000 meters)	150 Mbit/sec. Bit Rate 16.7 MB/sec. Network Transfer Rate 250 nsec. Min. Node Latency	Up to 16.7 MBytes/sec.	PCI	x	x	x	x	x	x		x	x	x	x	x	x	
							VME6U							x							
							Rehostable	User Defined Interface													
SC150e	Electrical: Universal +5/3.3 VDC Operating Temperature: 0° to 60° C, 32° to 140° F Operating Humidity: 10% to 90% (noncondensing)	2 MB 4 MB 8 MB	Yes	Standard Fiber (up to 300 meters) Long-link Fiber (up to 3,000 meters)**	150 Mbit/sec. Bit Rate 16.7 MB/sec. Network Transfer Rate 250 nsec. Min. Node Latency	Up to 70.0 MBytes/sec.	PCI	x	x	x	x	x	x		x	x	x	x	x	x	
							CompactPCI	x	x	x		x	x		x	x	x	x	x	x	
							PMC		x			x		x							x

* Check with a representative for specific bus specifications.
** PCI and CPCI form factors only.

Features

- SCRAMNet+ memory mapping provides an easy way to transmit data. The application simply writes data to SCRAMNet+ memory and the network immediately handles the data exchange. There's no need for complex communication protocols or additional software.
- No processor time is required to support network communications. Computing resources can be devoted to application-specific tasks.
- No token passing or polling for data is necessary. All nodes may simultaneously offer traffic on the network with no collisions, resulting in extremely low microsecond latency and deterministic operation.
- Event counter/timer with global reset provides network performance measurement and global time synchronization.
- A wide variety of different computer systems, bus architectures and operating systems can be connected in a SCRAMNet+ Network. The network will function like a single multiprocessor system, regardless of the computing platforms used.
- Memory paging allows nodes to isolate specific memory areas and their contents, so that they are available only to selected nodes on the network.
- Address-specific interrupts provide more flexibility in programming, while giving better response to individual data and network requirements.
- Data filtering increases the effective throughput on the network by replicating only the portion of SCRAMNet+ memory that has been modified, eliminating unnecessary network traffic.



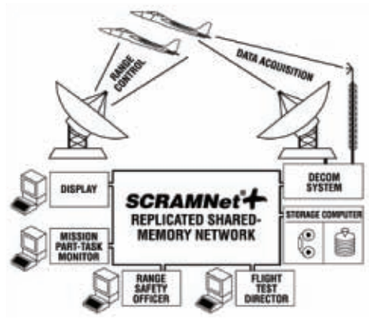
hardware to all nodes on the network. Insertion and transmit/receive FIFOs buffer the data flow to avoid the data collisions often encountered in standard networks.

The SCRAMNet+ Network's ring topology can be expanded up to 256 nodes to create a powerful multi-processor computing sys-tem, with complete host-processor and operating system independence at each node.

Applications

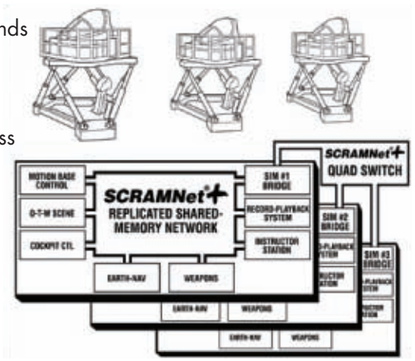
The SCRAMNet+ Network is ideally suited for applications with critical control loop timing requirements, such as simulation systems. Each SCRAMNet+ node provides the high-speed transfer of data between the control and feedback systems that may be running on many dissimilar computers in the system. Typical simulation systems include:

- Aircraft Simulators
- Missile Simulators
- Power Generation Plant Simulators
- Ship Simulators
- Land Vehicle Simulators
- Mission Planning Simulators
- Force-Level Training Simulators
- Virtual Reality Systems
- Location-Based Entertainment Systems



The tight control-feedback loops required by many instrumentation and control systems demand the low-latency performance of the SCRAMNet+ Network for accurate, real-time data acquisition and control. SCRAMNet+ provides the nearly-instantaneous availability of critical data that enables system evaluation and adjustment in real-time. Typical instrumentation and control applications include:

- Range and Telemetry Systems
- Flight Test
- Wind Tunnels
- Engine Test Stands
- Robotics
- Particle Accelerators
- Industrial Process Control



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



SCRAMNet+



SC150 PCI

Hardware Compatibility:
PCI Specification Version 2.0

Physical Dimensions: 4.200" x 9.500"
(106.680 mm x 341.300 mm)



SC150e PCI

Hardware Compatibility:
PCI Specification Version 2.0

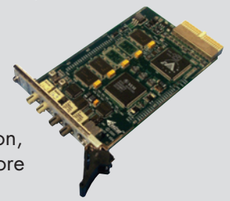
Physical Dimensions: 4.200" x 9.500"
(106.680 mm x 341.300 mm)



SC150e PMC

Hardware Compatibility:
PCI Local Bus Specification,
Rev. 2.1,
CMC IEEE P1386/Draft 2.0
PMC IEEE P1386.1/Draft 2.0

Physical Dimensions: 2.913" x 5.866"
(74.000 mm x 149.000 mm)



SC150e CPCI

Hardware Compatibility:
PCI Local Bus Specification,
Rev. 2.1, CompactPCI Core
Spec. PICMG 2.0 R3.0
CompactPCI Hot Swap
Spec. PICMG 2.1 R1.0

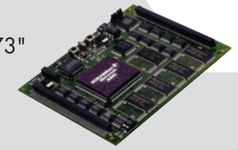
Physical Dimensions: 6.299" x 3.937"
(160.000 mm x 100.00 mm)



SC150 VME6U

Hardware Compatibility:
VMEbus Rev. C.3, ANSI/IEEE
Standard 1014-1987

Physical Dimensions: 6.299" x 9.173"
(160.000 mm x 233.000 mm)



SC150 Rehostable

Hardware Compatibility: Register/Memory Bus

Physical Dimensions: 3.300" x 4.000"
(83.820 mm x 101.600 mm)

Accessories

LinkXchange Crossbar Switch

A modular digital switch offering high-speed, low latency digital switching and media conversion with support for 2 to 16 SCRAMNet+ connections.

Fiber Optic Bypass Switch

Mechanical switch providing automatic network reconfigurationand port bypass with only a 15-to-22 millisecond delay in network operations.

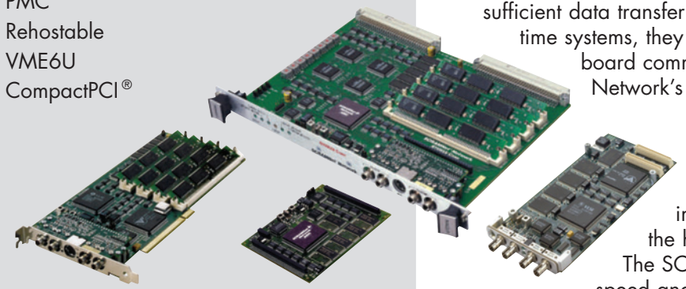
SCRAMalyzer™ Network Monitor System

The SCRAMalyzer is a port-able network monitoring system that provides critical data for easy analysis of SCRAMNet network performance.

Memory SIMMs, Media Cards and *Cables*

Additional items are available which allow users to fully deploy and customize their SCRAMNet+ Network, whether it be memory expansion, media conversion, or simply connecting the SCRAMNet nodes. Ask your representative for more details.

- Shared-Memory Communications
- 250 nSec/node Latency
- 16.7 MB/sec Data Throughput
- Coax or Fiber Optic Media Options
- Flexible Memory Size Options
- Single-Slot Solution
- Backplane Support
  - PCI
  - PMC
  - Rehostable
  - VME6U
  - CompactPCI®





SCRAMNet+

The SCRAMNet+ Network (Shared Common RAM Network) was developed to satisfy the demanding real-time requirements of high-fidelity simulations — but its capabilities extend equally well to virtually all other distributed real-time applications. Based upon a replicated shared-memory concept, the SCRAMNet+ Network is optimized for the high-speed, ultra-low-latency transfer of data among many computing platforms that are all solving portions of the same real-time problem. Its simplicity and speed are ideally suited for applications requiring a high degree of synchronization and control.

The proven SCRAMNet+ SC150 series is designed to provide the speed and deterministic performance of shared-memory while avoiding the data collisions and computer-to-computer latencies often caused by the complex, time-consuming layers of software and hardware protocols used in typical networking systems. Although standard networks may offer sufficient data transfer rates between boards for some real-time systems, they are unable to match the superior host-to-board communication achieved by the SCRAMNet+ Network's shared-memory architecture.

In critical real-time systems, computer-to-computer data latency is dependent on two factors: network speed and, more importantly, data throughput between the host computer and the network node. The SCRAMNet+ Network's shared-memory speed and simplicity insure that communication at every computer is optimized for minimal data latency. It virtually guarantees that all computers in the system are operating simultaneously on the same set of data.

© Copyright 2006, CurtissWright Controls, Inc.,
All Rights Reserved. MKTFS-SNI051706v2

For more information on this product or
our other high-integrity computing solutions:
Sales Phone (U.S.): 1-800-252-5601
Sales Phone (Int'l): +1-937-252-5601
Sales Info: sales.cwcembedded.com
Product Info: dayton.cwcembedded.com
www.cwcembedded.com

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

CURTISS WRIGHT Controls
Embedded Computing

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP