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.

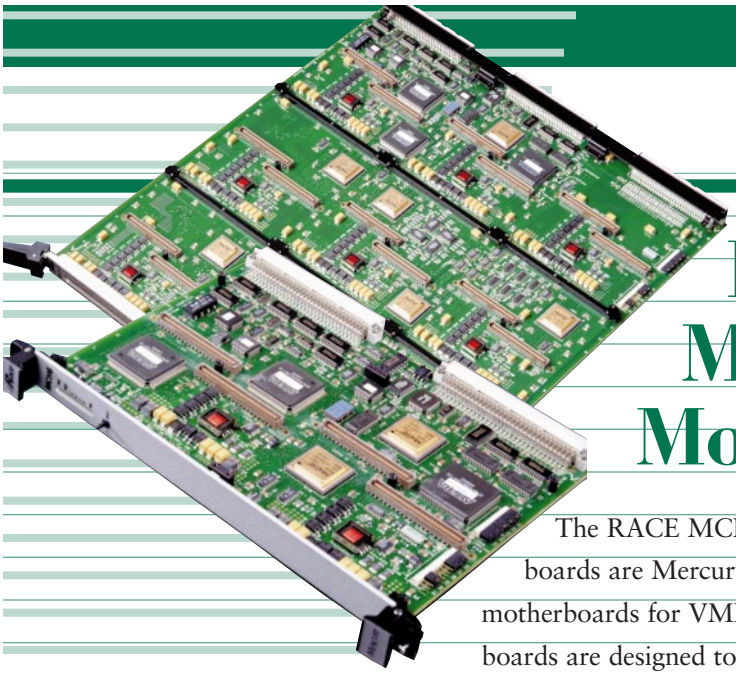
Custom engineering
so your equipment works exactly as you specify.

- 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 *Mercury Computer Systems RACE MCJ6* at our website: *Click HERE*



Computer Systems, Inc.
MERCURY

RACE® MCH Series Motherboards

Heterogeneous Configurability

High-Performance Interface

RACEway Interlink Port

Multiple Daughtercard Support

The RACE MCH Series motherboards are Mercury's heterogeneous motherboards for VME systems. These boards are designed to support daughtercards based on components such as the PowerPC™ 603 and Analog Devices SHARC® processors, as well as Mercury's RIN-T-B and ROUT-T-B I/O daughtercards.

The MCH Series motherboards include the MCH6™ and MCH9™, which are 6U and 9U form factors, respectively, and have VME64 and RACEway interfaces.

Mercury's RACE MCV Series motherboards can be combined with the MCH Series motherboards, allowing i860, SHARC, and PowerPC processors to be used in the same system (i860 processors are supported only by MCV Series motherboards).

Highlights

- High-performance VME64 interface
- RACEway Interlink port
- RACE daughtercard locations
- 5- to 3.3-volt power conversion
- RACEway crossbars

The following processor configurations can be achieved:

MCH6 Motherboard

All processors and I/O devices are mounted on daughtercards.

- Total of 2 daughtercard locations
- 1 for SHARC or PowerPC
- 1 for SHARC, PowerPC, or I/O

Maximum number of processors per motherboard:

- 4 PowerPC RISC processors or
- 12 SHARC DSP processors

MCH9 Motherboard

All processors and I/O devices are mounted on daughtercards.

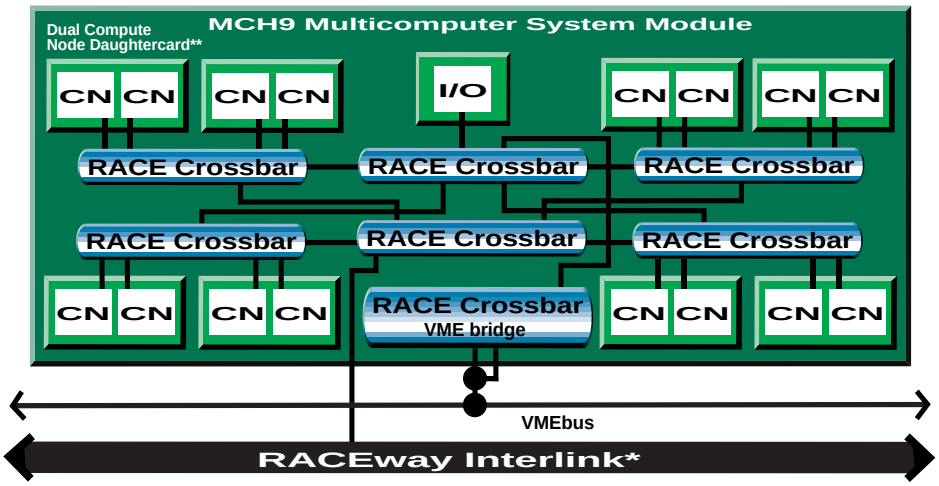
- Total of 9 daughtercard locations
- 7 for SHARC or PowerPC
- 1 for SHARC, PowerPC, or I/O
- 1 for I/O only

Maximum number of processors per motherboard:

- 16 PowerPC RISC processors or
- 48 SHARC DSP processors

Full heterogeneous software support for PowerPC, SHARC, and i860 processors is available starting with MC/OS™ Version 4.

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



*Refer to the Mercury Computer Systems data sheet on RACEway Interlink modules for more information
**One dual compute node daughtercard can be replaced with an I/O daughtercard; some compute node daughtercards are available with one compute node

Electrical/Mechanical Specifications

Input voltage 4.75 to 5.25Vdc

Power without daughtercards:

MCH6	10 watts at 5Vdc
MCH9	18 watts at 5Vdc

Minimum efficiency in conversion from 5-volt to 3.3-volt used by some daughtercards is 85%.

Dimensions:

MCH6	6.3 x 9.2 inches
MCH9	14.44 x 15.75 inches

Slot-to-slot spacing .8 inches

Weight:

MCH6	.8 pounds
MCH9	3.0 pounds

Mercury offers multiple categories of environmental ruggedness for MCH Series motherboards. The specifications detailed below are for the MCH Series motherboards for standard commercial environments.

Recommended minimum airflow:

MCH6	8 CFM
MCH9	24 CFM

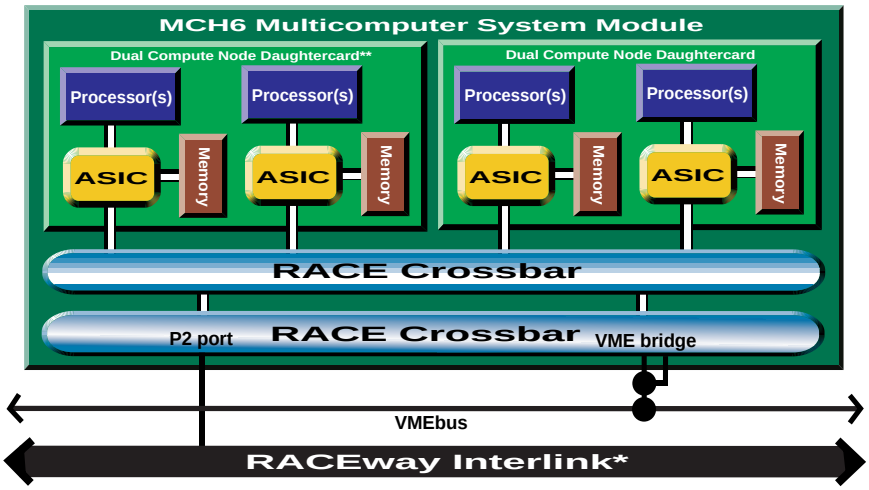
Operating temperature 0˚C to 40˚C at an altitude of 10,000 feet (inlet air temperature at recommended minimum airflow)

Storage temperature -40˚C to 85˚C

Relative humidity 10 to 90% (non-condensing)

As altitude increases, air density decreases, hence the cooling effect of a particular number of CFM decreases. Many manufacturers specify altitude and temperature which are not simultaneous. Notice that the above operating temperature is specified simultaneously with an altitude. Different limits can be achieved by trading among altitude, temperature, performance and airflow. Contact Mercury for more information.

Generally, chassis will require blower(s) as opposed to axial fans, in order to achieve the above airflow numbers.



*Refer to the Mercury Computer Systems data sheet on RACEway Interlink modules for more information
**One dual compute node daughtercard can be replaced with an I/O daughtercard; some compute node daughtercards are available with one compute node

Computer Systems, Inc.
MERCURY
The Ultimate Performance Machine

199 Riverneck Road
Chelmsford, MA 01824-2820 U.S.A.
978-256-1300 • Fax 978-256-3599
800-229-2006 • http://www.mc.com

RACE and the RACE logo are registered trademarks and MCH6, MCH9, and MC/OS are trademarks of Mercury Computer Systems, Inc. PowerPC is a trademark of IBM Corp. and SHARC is a registered trademark of Analog Devices Inc. Other products mentioned may be trademarks or registered trademarks of their respective holders. Mercury believes this information is accurate as of its publication date and is not responsible for any inadvertent errors. The information contained herein is subject to change without notice. Copyright © 1996, 1997, 1998 Mercury Computer Systems, Inc. DS-4A-04

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

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