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**

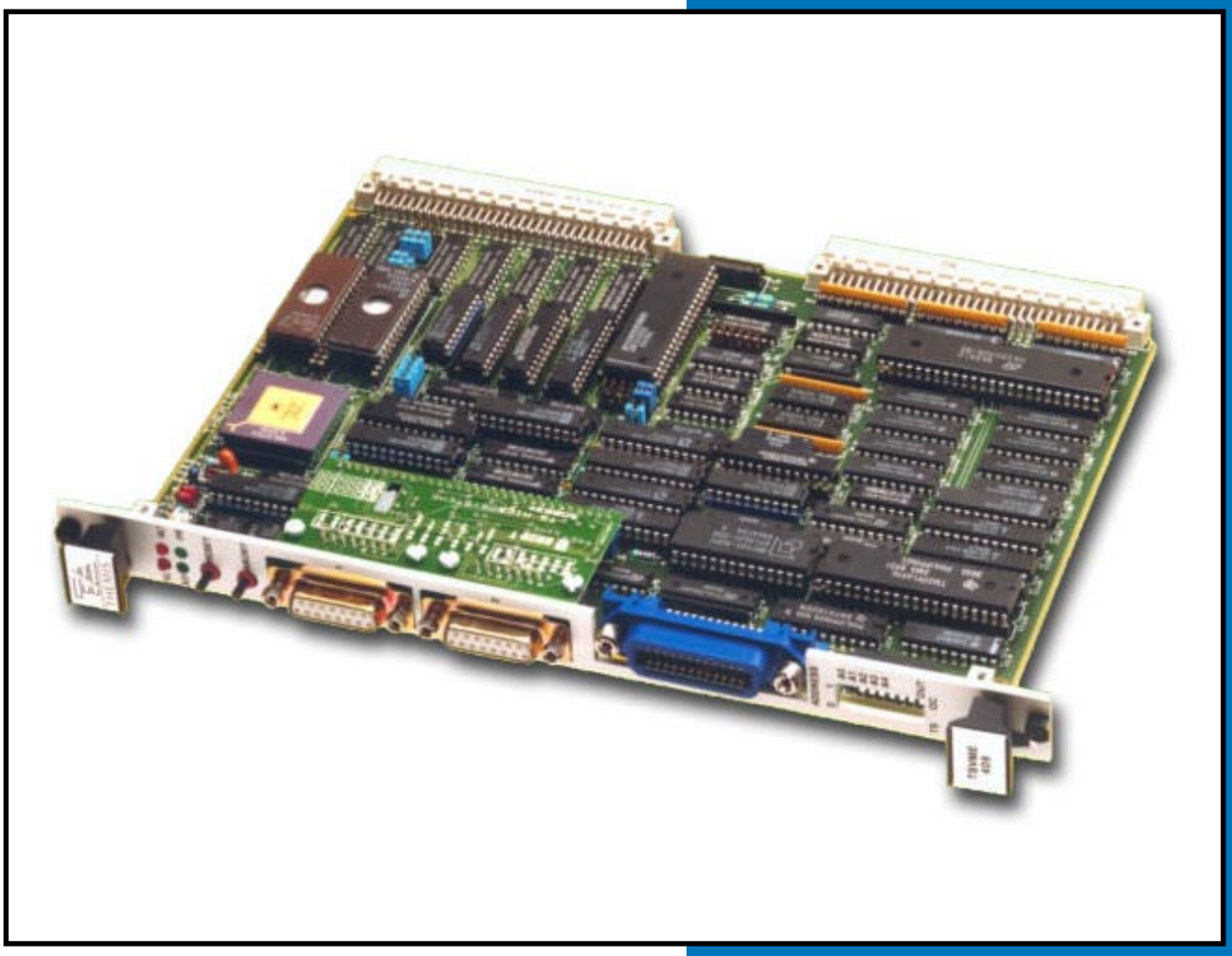
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Mercury Computer Systems / Themis TSVME409-1* at our website: *Click HERE*

# TSVME 409

*CPU/IPC*
*GPIB Controller*

TEKELEC
SYSTEMES



## *Main specifications*

- IPC (Intelligent Peripheral Controller) architecture based on 12.5 MHz 68010 CPU
- IEEE 488 Listener / Talker / Controller interface based on TMS 9914A GPIB controller
- 1 MB shared memory with parity
- 2 RS232 serial ports on front panel
- one 68230 PI/T providing a timer and two 8-bit bufferized parallel I/O (accessible on P2)
- Complete VME A24D16 master/slave interface

# INDUSTRIAL I/O BOARD

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

Whenever it is desired to combine the master CPU and the GPIB controller on a single VME bus slot, or to offload the master CPU from GPIB protocol handling, or simply to ensure high performance on the GPIB bus, the **TSVME409** appears as an efficient solution.

The TSVME409 is a double Eurocard intelligent IEEE-488 controller, designed around a 68010 CPU at 12.5 MHz and an enhanced GPIB interface. The processor handles the protocol and data buffers in up to 1 MB of shared DRAM with parity control. The firmware is stored on the 128 KB of EPROM. The board has a full master/slave VMEbus interface, with mailbox interrupts and interrupter. GPIB address is selectable through a switch group accessible from the front panel.

The TSVME 409's high data throughput is achieved through the use of a proprietary data flow sequencer. A 512-byte FIFO is connected to the TMS9914A chip in DMA mode. This architecture allows sustained data transfers at up to 500 Kbyte/s on the IEEE-488 bus.

Additional features include two RS232 serial lines and a 68230 PI/T, providing a timer and two 8-bit bufferized parallel I/O (accessible from P2).

Four LEDs on front panel indicate the FAIL-line state, the HALT state, a VMEbus access (BUSY) and a GPIB access.

Two push-buttons are available on front panel : RESET and ABORT.

The TSVME409 board comes with 2 EPROMs containing the VBUG monitor and the IEEE-488 primitives.

VBUG features a board-level self-test and extremely efficient debugging tools, including line-by-line assembler/disassembler, transparent mode, host downloading, symbol support and memory windowing.

The IEEE-488 primitives allow the user to write instrument control programs without dealing explicity with the GPIB bus protocol. Dynamic interrupt handling , including sleep/wake-up mechanism, is fully supported. All primitives are accessed through a single entry point in the EPROM, thus faciliting the use of high level languages like C.

**ORDERING INFORMATION :**

| | |
|---|---|
| **TSVME 409** | IEEE 488 interface, Intelligent Peripheral Controller |

☞ **CUSTOMIZED BOARDS :** VME Boards are usually delivered with a standard, general-purpose configuration. Application-related configuration can be made either by the customer, or before shipping, in our factory. Given the jumper, solder beads and wrapping configuration, we deliver boards ready to be plugged into the destination VME system.



**TEKELEC SYSTEMES** – *VME*

2 rue Robert Keller F-10150 Pont Sainte Marie (FRANCE)

Tel : +33 3 25 76 45 62 / Fax : +33 3 25 80 76 92

E-mail : vme@temex.fr / WebSite : www.temex-telecom.com/vme.htm

FTC-VME409en-a

Design Tekelec Systèmes. Subject to change without notice.

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