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.

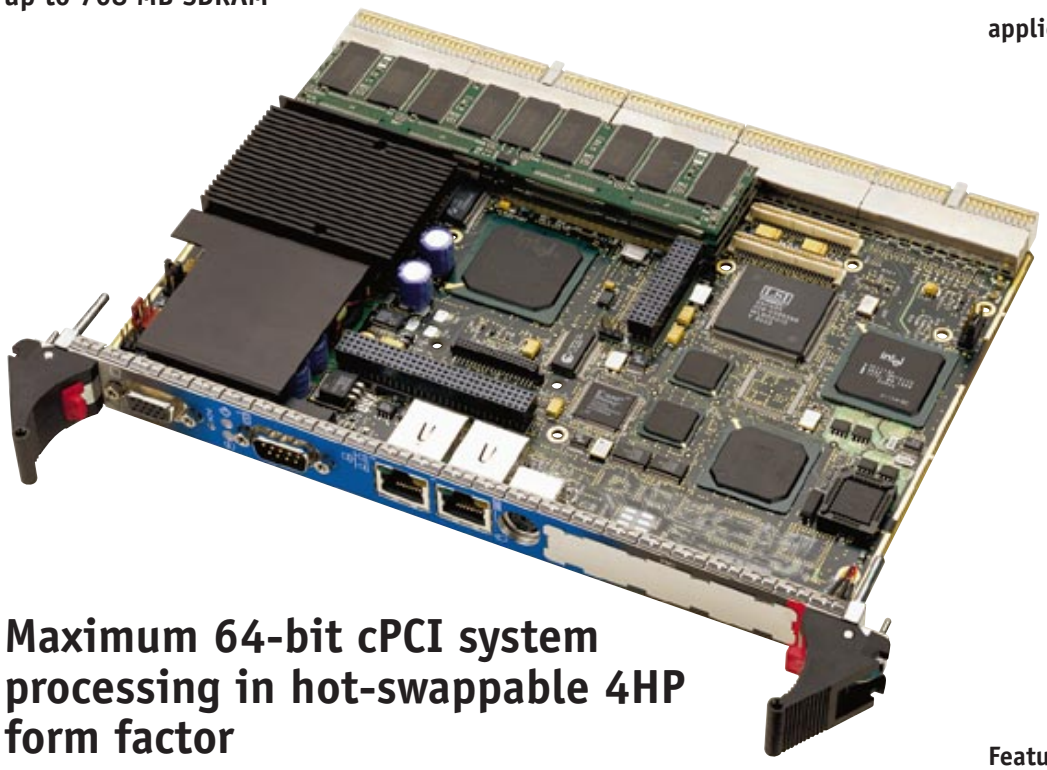
Find the *Kontron / Teknor Applicom cPCI-MXS64* at our website: *Click HERE*

cPCI-MXS64

6U CompactPCI® 64-bit System Processor

Single or Dual Slot Pentium® III Processor LP 500 MHz and up to 768 MB SDRAM

Kontron's cPCI-MXS64 is a hot-swappable, passive cooled system processor that integrates into a single slot footprint a wide range of high availability features ideal for mission critical datacom, telecom and industrial imaging applications.



Maximum 64-bit cPCI system processing in hot-swappable 4HP form factor

In a single slot form factor, Kontron's cPCI-MXS64 system processor integrates state-of-the-art CompactPCI® technology with a full spectrum of high availability features targeted at manufacturers of CTI servers, VoIP equipment and broadband data or intelligent network switches.

The cPCI-MXS64 is built with a Pentium® III - Low Power processor with an option for 400MHz or 500 MHz clock speeds and a Front Side Bus of 100 MHz. It is also backed with up to 768 MB of SDRAM, a 64-bit PCI bus and SCSI-2 LVDS.

To meet the demands of near real-time and real-time, mission critical datacom and telecom applications, Kontron's cPCI-MXS64 is loaded with other high availability features such as hot swap capability, dual Ethernet, IPMI controller, low power dissipation and passive cooling.

With standard Kontron mezzanine cards, the cPCI-MXS64 interface capabilities are expanded from seven to 14 CompactPCI I/O slots. Also, combine this SBC with either the cPCI-MXP, or the recently released cPCI-MXP64 peripheral processor from Kontron, to produce a powerful solution for scalable multi-processsing using IPTalky™ technology (IP on CompactPCI bus) for Windows® NT, VxWorks, pSOS and Linux-based applications

Features include:

- **Pentium III processor - Low Power, 500 MHz with on-die 256KB L2 Cache**
- **Intel 440BX AGPset**
- **Hot-Swappable**
- **Up to 768 MB SDRAM in single slot form factor**
- **Supports LVDS SCSI-2**
- **PCI-to-PCI transparent bridge**
- **PMC, USB, Serial and Parallel Ports, PCI EIDE**
- **Dual 10/100Base-TX Ethernet and one AGP Video Controller**

kontron

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

cPCI-MXS64 - Technical Specifications

CPU
- Pentium III processor - Low Power 500 and 700 MHz
- Intel 440BX AGPset
- Hot swappable
- 21-signal High-Availability controller: Select, Healthy, Reset for 7 CPCI I/O slots

Bus Interfaces
- 100 MHz front side bus
- CompactPCI® Bus, 32-bit/64-bit (33 MHz) J1 and J2
- PCI-to-PCI bridge: DEC 21154; supports up to 7 REQ/GNT for fully loaded CompactPCI® system
- PCI mezzanine (PMC)
- Kontron mezzanine with PCI bus, FD and EIDE support
- SMBus (for system management of CPU temperature monitoring, DRAM control, Clock buffers and power control)

Cache
- 16/16 KB Instruction / Data CPU-internal Level 1
- 256 KB 64-bit wide on-die Level 2 pipelined burst

Memory
- Three 168-pin latching DIMM sockets, 64/72-bit
- Up to 768 MB of SDRAM with parity or ECC (for single bit errorcorrection and double bit error detection)

Data Path
- 64-bit CPU bus; 32-bit AGP bus; 32-bit on local PCI and 64-bit on CPCI bus

Interrupts
- 11 edge sensitive and configurable
- 4 PCI level sensitive, configurable to any interrupt vector for PnP compatibility

Flash Memory
- 512 KB for BIOS field upgrade; Silicon Serial ID TAG for unique board identification accessible via software

I/O
I/O: SMC FDC37C672
USB Ports: Two
Serial Ports: Four (three RS-232, COM1, 2, 4; COM3 configurable as RS-422/485/232)
Parallel Port: One bi-directional with all IEEE 1284 protocols supportedwith BIOS selectable IRQs and addressing
Floppy Disk: Support for two drives (360 KB to 1.44 MB)
EIDE: Two channel Bus Master PCI EIDE; support for four IDE Type 4 drives (master/slave configuration); LBA, PIO Mode 0-4 and Ultra DMA/33
CompactFlash™ Module: Optional bootable CompactFlash™ disk interfaces to primary EIDE channel, user upgradeable, master/slave
SCSI: Supports 16-bit Ultra Wide LVD SCSI up to 80MB/s
Ethernet: Two 10/100 Mb/s Ethernet, PCI 10/100Base-TX ports (Intel 82559 controller)
HD / FD Mezzanine Card: Optionally onboard using Kontron's cMC series mezzanine cards

Video
- 64-bit AGP video controller (Intel 69000) with 2 MB video memory
- CRT resolutions up to 800 x 600, 16.8 M colors; 1024 x 768, 64K colors; or 1280 x 1024, 256 colors, non-interlaced

Clock / Calendar
- Real-time clock with (replaceable) battery backup, CMOS RAM

Connectors in "Front" configuration
- CRT (15-pin D-sub); serial COM 1 (9-pin D-sub); two Ethernets (RJ-45 with link / activity indicators); PS/2 mouse / keyboard (6-pin mini-Din); PMC; reset; Interfaces on J3/J4/J5 (Rear-panel transition module, cTM80-STD2S/1S available separately) CRT; 4 x serial; 2 x USB; 1 x parallel; SMBus; I2C; speaker I/F; Reset; 2 x Ethernet; PS/2 mouse; keyboard; SCSI; 2 x EIDE; floppy disk interface; fan fail monitoring

BIOS Features
- Award Elite BIOS in Boot Block Flash with recovery code; save CMOS in Flash option, and boot from LAN capability
- Auto configuration, extended setup;
- CC000-E0000 address blocking; PnP tables
- Setup console redirection to serial port (VT100 mode) with CMOS setup access
- Software enable/disable of onboard Ethernet & SCSI; hardware enable/disable of onboard video
- Diskless, keyboardless, and videoless operation extensions;
- System, video, SCSI, and LAN BIOS shadowing
- Programmable memory wait states
- Advanced security feature for floppy and HDD; DMI & HDD S.M.A.R.T. support
- Advanced Configuration and Power Interface (ACPI 1.0), Advanced Power Management (APM 1.2), advanced thermal management (resume, overheat alarm and auto slow down), and Green support

Supervisory
- Two-stage software programmable Watchdog timer drives NMI on 1st stage and system reset on 2nd stage
- Programmable CPU temperature monitor/alarm
- Power failure / low battery detector
- Front Panel LEDs: Disk (IDE/SCSI) activity, Hot Swap LED, and Ethernet activity and link

OS Compatibility
- MS-DOS™, Windows® 95/98,Windows® NT, VxWorks™, pSOS™, QNX™, Linux, and Solaris

Mechanical (compliant to IEEE 1101.10;compliant to PICMG 2.0 Rev 2.1)
- 233 x 160 x 41 mm / 9.2 x 6.3 x 1.6 in; 6U x 8HP (dual slot) Mechanically
- 233 x 160 x 20.5 mm / 9.2 x 6.3 x 0.8 in; 6U x 4HP (single slot) Mechanically

Power Requirements

Supply Voltages:	+3.3V: +5%,-3% / +5V +5%,-3% / +12V +5%,-3%	
Supply Current:*	3.3V:	4.5 Amps max.
	5V:	3.5 Amps max.
	12V:	0.1 Amps max.
Power Dissipation:	40W max.	

** This is with a Pentium III processor 500 MHz and 768MB DRAM.*

Environmental

	Operating	Storage and Transit
Temp.:	0-60°C/32-140°F	-40 to +70°C / -40 to 158°F
Humidity:	5% to 95% @ 40°C/104°F non-condensing	5% to 95% @ 40°C/104°F non-condensing
Altitude:	4,572 m / 15,000 ft	15,240 m / 50,000 ft
Shock:	Designed to meet IEC 68-2-27	
Vibration:	Designed to meet IEC 68-2-6	

Reliability
- MTBF: > 100,000 hours @ 55°C / 131°F (MIL-HDBK-217F)
- Board serial number in EEPROM
- USB, keyboard, mouse and SCSI voltage protected by self-resettingfuses
- 2 year limited warranty

Designed to meet or exceed:
Safety: UL 1950; CSA C22.2 No 950; EN 60950; IEC950
EMI/EMC: FCC 47 CFR Part 15/CISPR22, Class B; CE Mark to EN55022/EN50082

kontron

www.kontron.com

Corporate Offices

US / Canada
616 Curé-Boivin
Boisbriand (Québec) Canada J7G 2A7
Tel. (450) 437-5682
Fax (450) 437-8053
sales@us.kontron.com

Europe, Middle East and Africa
Oskar-von-Miller-Strafle 1
85386 Eching/Munich Germany
Tel. +49 81-65 77 0
Fax +49 81-65 77 219
sales@de.kontron.com

Asia Pacific
6F, No.9, Lane 235, Pao-Chiao Rd.,
Hsin-Tien, Taipei Hsien, 231 Taiwan
Tel. +886-2-2910 3532
Fax +886-2-2910 3482
sales@tw.kontron.com

cPCI-MXS64.4_10/2001 Rep.0_10/2001

The latest version of this document may be found on our web site. Specifications subject to change without notice. Some products may not be available in all regions. Kontron and the Kontron logo are registered trademarks of Kontron Embedded Computers AG or its subsidiaries in the European Union and other countries. All other trademarks are property of their respective owners. Copyright 2001 by Kontron Embedded Computers AG. All rights reserved.

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