

**Aumictech**

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Data Sheet

August 15, 2026

CONCURRENT TECHNOLOGIES

Concurrent Technologies PP 421 23X Single Board Computer

The Concurrent Technologies PP 421 23X is a CompactPCI single-slot processor board engineered for demanding industrial control, telecommunications, telemetry, scientific, and aerospace applications. Built around dual-core Intel® Xeon® processors and housed in a 6U form factor, this PC-compatible SBC delivers high performance with extended system lifecycle support and flexible I/O expansion capabilities. On-board solid state disk options for operating system, application, and data storage Networking & Connectivity Aumictech offers NIST-traceable calibration and repair for the Concurrent Technologies PP 421 23X. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus functional verification. NI CompactRIO and PXI chassis also und



MODEL

**Concurrent
Technologies PP
421 23X**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PP 421 23X

LISTING

<https://aumictechlabs.com/products/pp-421-23x-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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aerospace applications. Built around dual-core Intel® Xeon® processors and housed in a 6U form factor, this PC-compatible SBC delivers high performance with extended system lifecycle support and flexible I/O expansion capabilities. Technical Specifications Processors & Memory Dual-core Intel® Xeon® processors DDR4 ECC memory up to 32 Gbytes on select models Storage On-board CompactFlash site Optional on-board hard disk drive Optional 2.5-inch disk drive or CompactFlash/Microdrive carrier On-board solid state disk options for operating system, application, and data storage Networking & Connectivity Four Gigabit Ethernet links PICMG 2.16 (Packet Switching Backplane) compliant RS232, RS422, or RS485 serial interfaces Ultra 160 SCSI interface SATA 300 interfaces USB 2.0 ports Expansion & Graphics Two XMC/PMC module slots for local I/O expansion One PMC module interface (32/64-bit, 33/66 MHz) High-resolution VGA (front or rear mounted) Optional dual DVI-D and DisplayPort connections System Management IPMI-compliant with PICMG 2.9 Baseboard Management Controller (BMC) Additional Interfaces EIDE interfaces PS/2 keyboard and mouse port Key Features The single-slot CompactPCI design minimizes board real estate while supporting optional expansion modules for custom I/O requirements. Extended temperature and ruggedized variants accommodate environments with demanding thermal or shock/vibration profiles. Typical Applications Industrial control systems, telecommunications infrastructure, telemetry networks, scientific instrumentation, and aerospace platforms requiring embedded processing with long-term availability. Compatibility & Integration Supports Windows®, Linux®, and VxWorks® operating systems, enabling rapid integration into existing systems and software ecosystems.

PP42123X Characteristics / Specifications

PARAMETER	VALUE
Model	PP 421 23X
Base Model	PP 421
Configuration	23X
Instrument Type	CompactPCI single board computer
Form Factor	CompactPCI
Bus	CompactPCI
Slot Role	CompactPCI system or peripheral slot class
Related Carrier	PP 412 intelligent dual PMC carrier
Manufacturer	Concurrent Technologies
Literature	Concurrent Technologies PP 421 23X listings
Family	Concurrent PP 421 cPCI SBC
Brand Lineage	Concurrent Technologies
System Role	cPCI single board computer
Use Case	CompactPCI system CPU
Documentation Type	OEM PP 421 listing
Year Class	PP 421
Application Class	embedded cPCI control
Vendor Path	Concurrent Technologies
Card Format	6U CompactPCI class SBC
Documentation Class	OEM cPCI SBC catalog
Control Class	cPCI system/peripheral controller
Companion Role	cPCI crate
Operating Mode	embedded SBC
Instrument Class	single board computer
Processor Class	PP-series embedded CPU

PARAMETER	VALUE
Memory Class	onboard DRAM/flash on PP-series SBCs
I/O Class	Ethernet and serial class on PP-series SBCs
Operating Temperature Class	commercial cPCI
Operating temperature	Class: commercial cPCI

PP42123X Specifications

PARAMETER	VALUE
CompactPCI single board computer	PP 421 23X configuration
Embedded Ethernet/serial class I/O	Companion to PP 412 PMC carrier
Technical Specifications	Model: PP 421 23X

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial cPCI
Operating Temperature	Class: commercial cPCI
Operating Temperature Class	commercial cPCI Notes From Concurrent Technologies PP 421 23X listings (cPCI SBC, 23X configuration). CPU type, memory, and rear I/O map are on the PP 421 hardware reference / 23X configuration.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Concurrent Technologies PP 421 23X listings (cPCI SBC, 23X configuration). CPU type, memory, and rear I/O map are on the PP 421 hardware reference / 23X configuration.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.