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Data Sheet

August 15, 2026

CONCURRENT COMPUTER CORPORATION

Concurrent Computer Corporation Real-Time Clock and Interrupt Module (RCIM II)

Concurrent Computer Corporation Timers & Counters. Resolution: 1 microsecond.



MODEL

**Concurrent
Computer
Corporation RCIM
II**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RCIM II

LISTING

<https://aumictechlabs.com/products/rcim-ii-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Concurrent Computer Corporation Real-Time Clock and Interrupt Module (RCIM II) is a PCI-based multifunction card engineered for time-critical applications on Concurrent iHawk multiprocessing systems. It delivers precise timekeeping, interrupt generation, and distributed event synchronization across single and multiple systems - essential for simulation, data acquisition, and industrial control environments running RedHawk Linux. Technical Specifications Real-Time Clocks Eight 32-bit programmable POSIX-compliant real-time clocks 64-bit clock resolution with 400 nsec low-order granularity Minimum resolution: 1 microsecond Decrementing counters that interrupt on zero crossing One-shot and periodic operating modes with automatic value reload Programmable to generate fixed frequencies (e.g., 600 Hz) External Interrupts Twelve edge-triggered input lines and twelve output lines Each input independently configurable for edge/level sensitivity and polarity Input termination: 180 ohms to +5 V; 330 ohms and 0.1 μ F to

ground Requires line driver capable of sinking minimum 30 mA Output signals driven by 74ABT16240 line driver Runtime control: arm, disarm, enable, disable, and sensitivity selection per line Distributed Interrupts Twelve distributed interrupt inputs and twelve outputs per RCIM Enables deterministic event synchronization across multiple iHawk systems Sources: real-time clocks, external edge-triggered inputs, or software Chained configuration via synchronization cables for inter-CPU notification Allows single-CPU events to propagate to multiple connected systems Key Features PCI interface integration with iHawk multiprocessing architecture Custom interrupt source injection via external input lines Distributed interrupt chaining for multi-system event coordination Full RedHawk Linux driver support Typical Applications Real-time simulation, distributed data acquisition, industrial control systems requiring synchronized multi-CPU event handling, and time-critical process scheduling. Compatibility & Integration Designed for Concurrent iHawk systems running RedHawk Linux real-time operating system.

RCIMII Characteristics / Specifications

PARAMETER	VALUE
Model	RCIM II
Instrument Type	PCI real-time clock and interrupt module
Family	Concurrent RCIM I / RCIM II
Posix Clock	64 bits (two 32-bit words)
Posix Resolution	high-order 32 bits 1 s; low-order 32 bits 400 ns
Oscillator Stability	plus or minus 20 PPM
Tick Timer	64-bit counter of 400 ns ticks
Rtc Count	8 real-time clocks
Rtc Length	32 bits
Rtc Resolution	1 microsecond (larger values programmable)
Edge Inputs	12 external edge-triggered interrupts
Output Interrupts	12 external output interrupts
Distributed In	12 distributed interrupt inputs
Distributed Out	12 distributed interrupt outputs
Interrupt Latency	less than 8 us to user process
Form Factor	PCI
Pci Performance	66 MHz 64-bit
Io Connector	Molex LFH-60
Cable Length	32 ft maximum
Gps Module	available on RCIM II
Oven Oscillator	available on RCIM II
Operating Temperature	10 C to 40 C
Storage Temperature	minus 40 C to 65 C
Humidity	10 to 90 percent non-condensing
Power	about 5 W

PARAMETER	VALUE
Manufacturer	Concurrent Computer Corporation
Literature	Concurrent legacy RCIMland II user guide 0898007L specifications table
Sibling	RCIM I 33 MHz 32-bit PCI, 4 clocks, plus or minus 100 PPM, 10 ft cable

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 65 C
Operating temperature	10 C to 40 C
Operating Temperature	10 C to 40 C
Humidity	10 to 90 percent non-condensing
Power	about 5 W
Manufacturer	Concurrent Computer Corporation
Literature	Concurrent legacy RCIM I and II user guide 0898007L specifications table
Sibling	RCIM I 33 MHz 32-bit PCI, 4 clocks, plus or minus 100 PPM, 10 ft cable Notes From Concurrent legacy RCIM I/II user guide RCIM II column. PCIe RCIM III/IV 2.5 PPM and 20 W figures are later boards, not RCIM II.

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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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.