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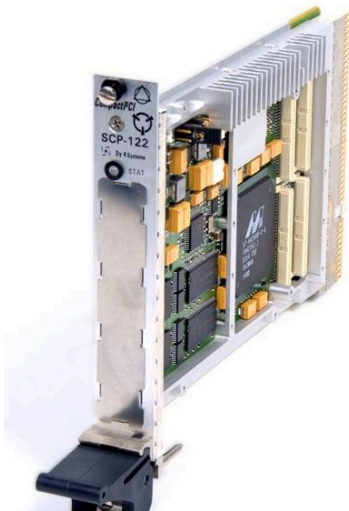
Data Sheet

August 15, 2026

CURTISS-WRIGHT / DY-4

Curtiss-Wright / DY-4 SCP-122 Single Board Computer

The Curtiss-Wright/DY-4 SCP-122 is a 3U CompactPCI single board computer built on the IBM PowerPC 750FX processor running at 800 MHz with 1856 DMIPS performance. Engineered for space and power-constrained rugged environments, it delivers balanced processing capability with minimal power draw. The SCP-122 is offered in System Controller (SCP) convection-cooled and Dependent Controller (DCP) conduction-cooled configurations across ruggedization levels L0 through L200. Non-volatile storage: 64 Mbytes Flash memory with Permanent Alternate Boot Site (PABS) capability nvRAM: 32 Kbytes Ferroelectric with 10-year data retention CompactPCI Bus & Expansion 2× RS-422 channels: asynchronous/synchronous, HDLC/SDLC capable; programmable as differential discrete I/O



MODEL

**Curtiss-Wright /
DY-4 SCP-122**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SCP-122

LISTING

[https://aumictechlabs.c
om/products/scp-122-
2/](https://aumictechlabs.com/products/scp-122-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Curtiss-Wright/DY-4 SCP-122 is a 3U CompactPCI single board computer built on the IBM PowerPC 750FX processor running at 800 MHz with 1856 DMIPS performance. Engineered for space and power-constrained rugged environments, it delivers balanced processing capability with minimal power draw. The SCP-122 is offered in System Controller (SCP) convection-cooled

and Dependent Controller (DCP) conduction-cooled configurations across ruggedization levels L0 through L200. Technical Specifications Processor & Memory CPU: IBM PowerPC 750FX at 800 MHz with 512 KB internal L2 cache Main memory: 128 Mbytes SDRAM with ECC, upgradeable to 256 Mbytes Non-volatile storage: 64 Mbytes Flash memory with Permanent Alternate Boot Site (PABS) capability nvRAM: 32 Kbytes Ferroelectric with 10-year data retention CompactPCI Bus & Expansion PICMG 2.0, Revision 3.0 compliant Operation at 33 MHz or 66 MHz with 3.3V or 5V signaling Integrated System Controller and Peripheral Controller PMC expansion site: 64-bit, 33/66 MHz with full 64-bit user I/O PMC signaling: 3.3V or 5V compatible Interfaces 1× 10/100BaseT Ethernet (IEEE 802.3) 2× RS-232 channels: asynchronous/synchronous, up to 115 Kbaud 2× RS-422 channels: asynchronous/synchronous, HDLC/SDLC capable; programmable as differential discrete I/O 1× USB 1.1 port: 12 Mbit/s full speed, 1.5 Mbit/s low speed Discrete I/O: Up to 16 bits LVTTTL-compatible, programmable input/output with interrupt-on-change (edge-selectable) RS-422/485 differential discrettes: up to eight total (four input, four output maximum) with interrupt capability Discrete outputs: 16 mA sink, 12 mA source Timers & RTC One 32-bit general purpose timer; three cascadable 24-bit timers Avionics Watchdog Timer with programmable timeout On-board Real-Time Clock Key Features Upgrade path to IBM 750GX processor Configurable thermal management (convection or conduction cooling) Multiple ruggedization options for demanding mission profiles On-board pull-up resistors for discrete I/O Typical Applications Aerospace, defense, and satellite payloads requiring high-density computing in thermally and power-limited platforms. Compatibility & Integration Full PICMG 2.0 compliance enables integration into standard CompactPCI chassis. PMC slot supports industry-standard mezzanine cards. Foundation firmware includes debug monitor and non-volatile memory programming.

SCP122 Characteristics / Specifications

PARAMETER	VALUE
Model	SCP-122
Instrument Type	Single board computer
Family	DY-4 SCP
Related Digital Ip	IP4-206-020 digital opto I/O IndustryPack
Related Adc Ip	IP4-660 A/D IndustryPack
Form Factor	rugged SBC (DY-4 SCP family)
Manufacturer	DY-4 / Curtiss-Wright
Use Case	embedded control and processing
Bus Class	VME/cPCI DY-4 SCP class
Operating Temperature Class	rugged/military grades per SCP sheet
Literature	Curtiss-Wright DY-4 SCP-122 listings
Mezzanine	IndustryPack sites class
Documentation Type	OEM rugged SBC catalog
Brand Lineage	DY-4 Curtiss-Wright
System Role	system CPU
Memory Class	onboard DRAM/flash per SCP-122 sheet
Io Class	serial/Ethernet class per SCP sheet
Power	backplane
Revision	SCP-122
Cooling	conduction or convection per variant
Calibration Source	OEM published specifications
Export Class	commercial test equipment
Operating temperature	Class: rugged/military grades per SCP sheet

SCP122 Specifications

PARAMETER	VALUE
Key Features	DY-4 SCP single-board computer
Rugged embedded CPU	Companion IP4-206 digital opto IP
Technical Specifications	Model: SCP-122

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: rugged/military grades per SCP sheet
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Operating Temperature Class	rugged/military grades per SCP sheet
Literature	Curtiss-Wright DY-4 SCP-122 listings
Mezzanine	IndustryPack sites class
Documentation Type	OEM rugged SBC catalog
Brand Lineage	DY-4 Curtiss-Wright
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Memory Class	onboard DRAM/flash per SCP-122 sheet
Io Class	serial/Ethernet class per SCP sheet
Power	backplane
Revision	SCP-122
Cooling	conduction or convection per variant
Calibration Source	OEM published specifications
Export Class	commercial test equipment Notes From Curtiss-Wright / DY-4 SCP-122 single-board-computer catalog identity. CPU type, clock, and memory map are on the SCP-122 hardware manual.

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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From Curtiss-Wright / DY-4 SCP-122 single-board-computer catalog identity. CPU type, clock, and memory map are on the SCP-122 hardware manual.	

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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.