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Data Sheet

August 15, 2026

CURTISS-WRIGHT / DY-4

Curtiss-Wright / DY-4 SVME-183-1712 Single-Board Computer

The Curtiss-Wright/DY-4 SVME-183-1712 is a single-board computer engineered for deployment in tactical aircraft, armored vehicles, and naval systems operating in harsh environments. Built on dual Motorola MPC7447A/7448 PowerPC processors with AltiVec SIMD capability, it delivers computing for complex signal processing and data-intensive workloads while maintaining compact form factor and exceptional thermal management. 128 MB to 512 MB contiguous direct-mapped Flash; 256 MB standard Interfaces & Connectivity Tundra Universe II VME64 master/slave with VME DMA and VME64x geographic addressing Two 64-bit PMC sites: PCI Bus 1 (100 MHz PCI-X, 800 MB/s peak) and PCI Bus 2 (66 MHz PCI-X) Timers, Sensors & Clocking



MODEL

**Curtiss-Wright /
DY-4 SVME-183-
1712**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SVME-183-1712

LISTING

<https://aumictechlabs.com/products/svme-183-1712-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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computing for complex signal processing and data-intensive workloads while maintaining compact form factor and exceptional thermal management. Technical Specifications Processing & Memory Dual Motorola MPC7447A/7448 PowerPC processors with AltiVec technology Clock speeds up to 1.4 GHz (single processor); dual MPC7448 at 1.2 GHz Up to 2 GB DDR SDRAM with ECC; 1 GB and 512 MB configurations available Hardware-enforced cache coherency for PCI and bus mastering peripherals 128 MB to 512 MB contiguous direct-mapped Flash; 256 MB standard Interfaces & Connectivity Three Gigabit Ethernet ports (ENETP0, ENETP2) Six serial ports: 2× RS-232, 3× RS-232, 2× RS-232/433/485 Up to two MIL-STD-1553 channels Optional 8-bit or 16-bit SCSI interface Two USB 2.0 ports Tundra Universe II VME64 master/slave with VME DMA and VME64x geographic addressing Optional dual SATA 1.0 interfaces Expansion Two 64-bit PMC sites: PCI Bus 1 (100 MHz PCI-X, 800 MB/s peak) and PCI Bus 2 (66 MHz PCI-X) Timers, Sensors & Clocking 4× 32-bit general-purpose user timers 6× 32-bit OS timers (3 per processor) 2× avionics-style watchdog timers 4× general-purpose PCI/SDRAM DMA controllers On-board Real-Time Clock 4× on-board temperature sensors Environmental & Physical Single 0.8" slot occupancy Operating range: -40 to +71 °C Air-cooled (SVME) ruggedization levels 0 and 100; conduction-cooled (DMV) levels 100 and 200 Optimized conduction cooling design Key Features Dual PowerPC architecture with vector processing for DSP applications ECC memory protection and cache coherency enforcement Multi-protocol serial connectivity supporting MIL-STD-1553 High-speed Ethernet and optional SATA storage Avionics-grade watchdog timing Typical Applications Defense systems requiring fault-tolerant processing in extreme thermal and shock environments; airborne command and control; naval combat systems; land vehicle fire control and mission computers. Compatibility & Integration VME64/VME64x architecture with DMA master capability; PMC mezzanine card expansion via two independent PCI buses; software stack compatible with VxWorks and Linux real-time kernels.

SVME1831712 Characteristics / Specifications

PARAMETER	VALUE
Model	SVME-183
Instrument Type	6U VME single board computer
Form Factor	6U VME64x
Manufacturer Line	DY-4 / Curtiss-Wright
Processor Family Class	PowerPC
Pmc Sites Class	dual PMC class configurations
Vme Interface	VME64x
System Controller	supported class
Ethernet Class	onboard Ethernet class
Serial Ports Class	multiple EIA-232 class
Flash Memory Class	onboard flash with write protect class
Dram Class	soldered or SODIMM DRAM class
Os Support Class	VxWorks BSP class
Bit Firmware Class	Continuum CSA class
Cooling Grades	air and conduction cooled class
Operating Temperature Air Class	0 C to 50 C class level 0
Operating Temperature Conduction Class	extended class builds
Storage Temperature Class	minus 40 C to 85 C class
Shock Vibration Class	military environmental builds
Related Family	SVME/DMV PowerPC SBCs
Configuration Example	SVME-183-1712 dash coded build
I/O Personality	transition module dependent
Watchdog Class	hardware watchdog class
Storage temperature	Class: minus 40 C to 85 C class

PARAMETER	VALUE
Operating temperature	Air Class: 0 C to 50 C class level 0

SVME1831712 Specifications

PARAMETER	VALUE
Key Features	6U VME64x single board computer
VME system controller capability class	DY-4 Continuum software architecture class
Technical Specifications	Model: SVME-183

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 85 C class
Operating temperature	Air Class: 0 C to 50 C class level 0
Operating Temperature	Air Class: 0 C to 50 C class level 0
Operating Temperature Air Class	0 C to 50 C class level 0
Operating Temperature Conduction Class	extended class builds
Storage Temperature Class	minus 40 C to 85 C class
Shock Vibration Class	military environmental builds
Related Family	SVME/DMV PowerPC SBCs
Configuration Example	SVME-183-1712 dash coded build
I/O Personality	transition module dependent
Watchdog Class	hardware watchdog class Notes Capability rows from Curtiss-Wright/DY-4 SVME-183 SBC catalog descriptions. Exact CPU speed memory size and I/O follow the dash-coded build such as SVME-183-1712.

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	
Capability rows from Curtiss-Wright/DY-4 SVME-183 SBC catalog descriptions. Exact CPU speed memory size and I/O follow the dash-coded build such as SVME-183-1712.	

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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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.