

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

EMERSON / ARTESYN TECHNOLOGIES

Emerson / Artesyn Technologies BajaPPC-750 PowerPC-Based Single-Board Computer (375 MHz, 64 MB)

Emerson / Artesyn Technologies BajaPPC-750 PowerPC-Based Single-Board Computer (375 MHz, 64 MB) The BajaPPC750 provides a VME64 single-board computer designed around a PowerPC 750-class processor at 375 MHz with 64 MB DRAM per typical listings, offering dual PMC sites and Ethernet connectivity for embedded industrial and telecom compute applications. Embedded VME64 control and data acquisition systems; industrial automation and process control compute nodes; telecom and infrastructure equipment replacement boards; PMC-based custom I/O expansion on VME backplanes; legacy PowerPC 750 system maintenance. The BajaPPC750 provides a VME64 single-board computer designed around a PowerPC 750-class processor at 375 MHz with 64 MB DRAM per typical listings, offering dual PMC sites and Ethernet connectivity for embedded industrial and telecom compute applications. Embedded VME64 control and data acquisition systems; industrial automation and process control compute nodes; telecom and infrastructure equipment replacement boards; PMC-based custom I/O expansion on VME backplanes; legacy PowerPC 750 system maintenance.



MODEL

Emerson / Artesyn Technologies BajaPPC-750

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

BajaPPC-750

LISTING

<https://aumictechlabs.com/products/bajappc-750-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Emerson/Artesyn Technologies BajaPPC-750 is a PowerPC-based single-board computer engineered for compute and I/O intensive embedded applications. Built around a 375 MHz PowerPC 750 processor with superscalar architecture, it delivers capable performance for industrial control, networking, and communication systems. The board integrates 64 MB of on-board RAM, 512 Kbytes of secondary cache, and supports up to 256 MB of additional DRAM, providing sufficient memory for demanding workloads.

Technical Specifications

Processor: PowerPC 750 at 375 MHz with superscalar execution, featuring floating-point, branch processing, system register, and integer units. L2 cache support with external synchronous SRAM accessible via dedicated port.

Memory: 64 MB on-board RAM; 512 Kbytes secondary cache; up to 256 MB DRAM supported.

VMEbus Interface: VME64 with A32/A24/A16 address modes and D64(MBLT)/D32/D16/D08 data transfer modes. Master and slave operation supported. Integral write-posting FIFOs. Programmable DMA controller with linked list support. Transfer rates: 60–70 MB/sec. Full system controller functionality.

PMC Expansion: Two 32-bit expansion interfaces accommodating either two single-wide or one double-wide PMC module. I/O routable to front panel or P2 connector.

Communications: On-card Fast Ethernet interface plus two serial ports.

Key Features

- Superscalar PowerPC architecture with multiple execution units
- Write-posting FIFOs maximize VMEbus bandwidth utilization
- Linked-list DMA for efficient data transfers
- Flexible PMC slot configuration for custom and third-party cards
- Fast Ethernet and dual serial connectivity

Typical Applications

Telecom switching, Advanced Intelligent Network switching, network control, LAN-to-WAN bridging, video-on-demand systems, and communication switch control.

Compatibility & Integration

Compatible with standard and custom switch interfaces via PMC slots. Recommended for deployment in 1101.1-compatible enclosures with injector/extractor handles.

Features & description

From manufacturer datasheet

Features

- VME64 form-factor single-board computer
- PowerPC 750-class processor at 375 MHz
- 64 MB DRAM (typical listing configuration)
- Family DRAM expansion up to 256 MB class
- 512 KB L2 cache class
- On-board Ethernet
- Dual serial ports
- Dual 32-bit PMC expansion sites

BAJAPPC750 Characteristics / Specifications

PARAMETER	VALUE
Model	BajaPPC-750 (BajaPPC750)
Manufacturer	Emerson / Artesyn Technologies
Instrument Type	VME64 Single-Board Computer
Form Factor	VME64
Processor	PowerPC 750 class
CPU Speed	375 MHz
Installed DRAM	64 MB (typical listing)
Maximum DRAM (family class)	Up to 256 MB
L2 Cache	512 KB class
Networking	Ethernet
Serial Ports	Dual
Expansion	Dual 32-bit PMC sites
Alias	BajaPPC750 / BajaPPC-750 Standard Operating Conditions Install incompatible VME64 chassis with adequate cooling and correct backplane termination. Confirm installed DRAM size and CPU speed from faceplate or boot configuration. Observe PMC slot clearance and power budget when mezzanine cards are populated.

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	
Specifications	
PARAMETER	VALUE
Model	BajaPPC-750 (BajaPPC750)
Manufacturer	Emerson / Artesyn Technologies
Instrument Type	VME64 Single-Board Computer
Form Factor	VME64
Processor	PowerPC 750 class
CPU Speed	375 MHz
Installed DRAM	64 MB (typical listing)
Maximum DRAM (family class)	Up to 256 MB
L2 Cache	512 KB class
Networking	Ethernet
Serial Ports	Dual
Expansion	Dual 32-bit PMC sites
Alias	BajaPPC750 / BajaPPC-750
Standard Operating Conditions	
Install incompatible VME64 chassis with adequate cooling and correct backplane termination. Confirm installed DRAM size and CPU speed from faceplate or boot configuration. Observe PMC slot clearance and power budget when mezzanine cards are populated.	
Operational Notes	
Listing configurations commonly show 375 MHz and 64 MB DRAM, but the BajaPPC-750 family supports higher memory configurations—verify faceplate and BIOS reports before quoting compute resources. Alias BajaPPC750 / BajaPPC-750.	

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 2, 2026

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