

**Aumictech**

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Data Sheet

August 15, 2026

EMERSON / MOTOROLA

Emerson / Motorola MCP820 Compact PCI Host Slot Processor Module

Emerson Motorola MCP820 CompactPCI Single Board Computer The Motorola MCP820 isaCompactPCI single-board computer in the Motorola PowerPC CompactPCI SBC family. Period Motorola CompactPCI SBC catalogs place MCP820-class boards as PowerPC system-slot controllers with DRAM Flash Ethernet and PMC expansion for telecom and industrial CPCI systems. CompactPCI system-slot computing, telecom signaling platforms, and industrial embedded control on PICMG 2.0 backplanes. Instrument Type: CompactPCI single board computer The Motorola MCP820 isaCompactPCI single-board computer in the Motorola PowerPC CompactPCI SBC family. Period Motorola CompactPCI SBC catalogs place MCP820-class boards as PowerPC system-slot controllers with DRAM Flash Ethernet and PMC expansion for telecom and industrial CPCI systems. CompactPCI system-slot computing, telecom signaling platforms, and industrial embedded control on PICMG 2.0 backplanes. Instrument Type: CompactPCI single board computer Operating Systems Class: VxWorks Linux BSPs



MODEL

**Emerson /
Motorola MCP820**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MCP820

LISTING

<https://aumictechlabs.com/products/mcp820-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Emerson/Motorola MCP820 Compact PCI Host Slot Processor Module is engineered for host slot processing tasks. It has a platform for various industrial applications, ensuring dependable performance in harsh conditions. Its design focuses on reliability and efficient data processing within a compact PCI architecture.

MCP820 Characteristics / Specifications

PARAMETER	VALUE
Model	MCP820
Instrument Type	CompactPCI single board computer
Form Factor	6U CompactPCI
Bus Standard	PICMG 2.0 CompactPCI
Processor Family	PowerPC
Role	system slot SBC
Pmc Sites Class	one or more PMC
Ethernet Class	onboard Ethernet
Serial Console Class	RS-232 console
Flash Memory Class	onboard boot Flash
Dram Class	onboard or mezzanine DRAM
Manufacturer	Motorola Emerson
Hot Swap	CompactPCI hot swap class
Operating Systems Class	VxWorks Linux BSPs
Front Panel	reset abort LEDs class
Rear IO	CompactPCI J3 J4 J5 user IO class
Cooling	forced air in CPCI chassis
Operating Temperature Class	commercial or industrial
Humidity Class	non condensing
Power Rails	CPCI 3.3 V 5 V
Watchdog	hardware watchdog class
Clock	system real time clock class
Firmware	boot ROM and board diagnostics
Operating temperature	Class: commercial or industrial
Humidity	Class: non condensing

MCP820 Specifications

PARAMETER	VALUE
Emerson Motorola MCP820 CompactPCI Single Board Computer	Overview
Applications	CompactPCI system-slot computing, telecom signaling platforms, and industrial embedded control on PICMG 2.0 backplanes.
Technical Specifications	Model: MCP820

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial or industrial
Operating Temperature	Class: commercial or industrial
Humidity	Class: non condensing
Operating Temperature Class	commercial or industrial
Humidity Class	non condensing
Power Rails	CPCI 3.3 V 5 V
Watchdog	hardware watchdog class
Clock	system real time clock class
Firmware	boot ROM and board diagnostics Notes Family identity from Motorola MCP820 CompactPCI SBC catalog listings. Exact CPU speed DRAM size and PMC count are configuration specific on the board assembly label.

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	
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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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<https://aumictechlabs.com>

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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.