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Data Sheet

August 15, 2026

EMERSON / MOTOROLA

Emerson / Motorola CPX8216 cPCI Dual 8-Slot Chassis

Emerson Motorola Force CPX8216 CompactPCI System Platform The Motorola / Force Computers CPX8216 isaCompactPCI system platform / chassis family used with Motorola PowerPC and Pentium CompactPCI single-board computers. Period Force/Motorola CompactPCI platform literature describes 6U CompactPCI card cages with hot-swap capable backplanes and system-slot SBC support. Telecom and industrial CompactPCI computing platforms hosting Motorola CPCI SBCs and peripheral boards. Instrument Type: CompactPCI system platform The Motorola / Force Computers CPX8216 isaCompactPCI system platform / chassis family used with Motorola PowerPC and Pentium CompactPCI single-board computers. Period Force/Motorola CompactPCI platform literature describes 6U CompactPCI card cages with hot-swap capable backplanes and system-slot SBC support. Telecom and industrial CompactPCI computing platforms hosting Motorola CPCI SBCs and peripheral boards. Instrument Type: CompactPCI system platform Manufacturer: Motorola Force Computers Emerson



MODEL

**Emerson /
Motorola CPX8216**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CPX8216

LISTING

<https://aumictechlabs.com/products/cpx8216-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Emerson/Motorola CPX8216 is a 12U carrier-grade cPCI chassis engineered for high-availability telecom infrastructure. Built on a dual 8-slot CompactPCI backplane architecture with optional H.110 bus support, this platform delivers five-nines availability for deployments. NEBS and ETSI certified, the CPX8216 has powered thousands of global installations since 1999 across media gateways, packet data gateways, media routers, voice messaging, and VoIP systems.

Technical Specifications

Form Factor & Dimensions 12U CompactPCI chassis: 21.00" H × 17.50" W × 19.00" D (fits standard 19" rack mounts) Weight: 70 lb (31.85 kg) fully loaded

Backplane Architecture Dual 8-slot CompactPCI backplane PICMG 2.0 Rev. 2.1, PICMG 2.1 Rev. 1.0, and PICMG 2.5 Rev. 1.0 compliant Available with or without H.110 bus (CPX8216T models)

Power Delivery Three 400 W hot-swappable AC/DC power supplies with N+1 redundancy Load-sharing and diode-protected outputs +5.05 V @ 40.0 A max (±3%, <50 mV ripple P/P) +3.3 V @ 40.0 A max (±3%, <50 mV ripple P/P) +12.1 V @ 8.0 A max, 10.0 A peak (5 sec) (±5%, 120 mV ripple P/P) -12.1 V @ 4.0 A max (±5%, 120 mV ripple P/P) Maximum combined output: 400 W per supply

Cooling & Thermal Management Three internal DC-powered fans for module and drive cooling Ambient temperature limit: <45°C (113°F) Requires minimum 2" clearance front/rear, unobstructed front-to-rear airflow

Storage Options Four hot-swap drive bays (EIDE) at front Up to two internal floppy drives (one per domain) at rear

Key Features Hot-swap capable: CompactPCI Hot Swap Specification compliance with staged power pins and Alarm Status Register support Five-nines high-availability architecture Rear I/O connectivity for card management without drive removal

Typical Applications Media gateways, packet data gateways, media routers, voice messaging systems, VoIP infrastructure.

Compatibility & Integration Accepts industry-standard CompactPCI modules. Backplane configurations support PICMG 2.0, 2.1, and 2.5 specifications with optional H.110 telephony bus integration.

CPX8216 Characteristics / Specifications

PARAMETER	VALUE
Model	CPX8216
Instrument Type	CompactPCI system platform
Form Factor	6U CompactPCI
Bus Standard	PICMG 2.0 CompactPCI
System Slot	yes for SBC
Peripheral Slots	multi slot CPCI cage
Backplane	CompactPCI backplane
Hot Swap Class	hot swap capable slots
Manufacturer	Motorola Force Computers Emerson
Power	shelf power supply dependent
Cooling	forced air shelf cooling class
Card Height	6U
Card Depth	CPCI 160 mm class
Rear Transition	RTM support class
Operating Temperature Class	central office or industrial
Humidity Class	non condensing
Chassis	19 inch rack shelf class
Management	IPMI class on later buildsIO: front panel and RTM
Grounding	chassis safety ground
Duty	continuous embedded computing
Compatibility	Motorola CPCI SBCs
Expansion	PMC on system SBC
Operating temperature	Class: central office or industrial
Humidity	Class: non condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: central office or industrial
Operating Temperature	Class: central office or industrial
Humidity	Class: non condensing
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Expansion	PMC on system SBC Notes Identity from Motorola / Force Computers CPX8216 CompactPCI platform listings. Exact slot count PSU wattage and backplane fabric are shelf-configuration specific; confirm on the chassis nameplate.

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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NIST-traceable calibration · SAM registered ·
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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.