MOTOROLA COMPUTER GROUP

OEM Systems Products

CPX2408/2408T
CompactPCI Enclosure with Rear I/O

Advantages

The CPX2408 is a versatile, entry-level IEEE 1101.10 compliant 8-slot CompactPCI® chassis that can be rack or panel mounted or used on the lab bench. The rugged steel enclosure supports front or rear (IEEE 1101.11 compliant) I/O, features a front-accessible hot-swap fan tray and can be configured with single or dual n+1 redundant power supplies. Five peripheral bays are front accessible and protected from accidental misuse by an optional quick-release, hinged door. An H.110 backplane is supplied in the CPX2408T. The CPX2408 is hot swap enabled, designed to the PICMG® Hot Swap specification and ready to support hot-swap adapter boards.

Cost effective. Reliable. Maintainable. The CPX2408 is ideal for low-end to mid-range applications in the industrial automation, datacom and telecom markets.

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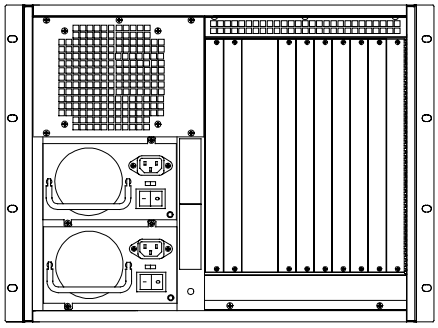
CPX2408 CompactPCI Rackmount Enclosure

Low cost and maintainable, the CPX2408 features a recessed card cage accommodating eight 6U CompactPCI boards housed vertically; one slot is reserved as the system (CPU) slot. Eight IEEE 1101.11 compliant rear transition module slots are provided (one per CompactPCI board position). The single or dual switchable 400 watt power supplies, with 100–120/200–240 VAC input, each provides up to 50 A at +5V, 30 A at +3.3V, 15 A at +12V, and 1.5 A at –12V.



CPX2408 Rear I/O Slots

Specifications

Dimensions

Height:	14 in. (8U, 355.6 mm)
Width:	17.3 in. (439.4 mm)
Depth:	14.4 in. (365.8 mm)
Weight:	Approximately 40 lbs. (18 kg) with a single power supply and without cards or peripherals

Construction

All steel body

Recessed card cage

Off-white (PMS 427 C) finish

RETMA standard rackmount (front or mid chassis)

Backplane

Conforms to PCI 2.1 and PICMG 2.0 CompactPCI specifications; also designed to support the PICMG Hot Swap specification

Supports 32- and 64-bit PCI architectures

Seven 6U x 4HP adapter card slots, one 6U x 12HP system CPU slot; one 6U x 4HP system monitor slot

Peripheral Bays

Five front-accessible drive bays. Three bays will accommodate 5.25" or 3.25" devices with standard adapter panels. Two bays will accommodate 3.5" devices with standard adapter panels.

Warranty

Five-year limited warranty

Power Supply Subsystem

Single or dual (n+1 redundant) configurations

Output (each):	400 watt @ 50° C
+5V	50 A max.*
+3.3V	30 A max.*
+12V	15.0 A max.
–12V	1.5 A max.
Input Voltage:	100–120/200–240 VAC (switchable), 50/60 Hz internal fuse protected 16 ms hold time for 5V at normal input voltage

*Combined draw on +5V and +3.3V not to exceed 200 watts.

Thermal Management

Bottom-to-top, positive pressure through front and negative pressure through rear, forced air cooling using 12 VDC brushless, ball-bearing fans, two mounted in front removable fan tray and one on removable rear panel, providing 100 CFM total through the card cage (thermal results and airflow characteristics will vary according to placement and height of components on installed boards)

Front air inlet, rear air exhaust

Removable, washable, foam filter (optional; 30 ppi filtration)

Power supply exhaust fan with each power supply

Environmental

	Operating	Storage/Transit
Temperature:	0° C to +40° C	–20° C to +70° C
Humidity (NC):	5% to 95% @ 40° C	0% to 95% @ 40° C
Altitude:	6,000 ft. (1,829 m)	50,000 ft. (15,240 m)
Shock:	—	per ASTM 0775
Vibration:	1.0 G @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz

Static Discharge: IEC 801-2

Acoustic Noise: < 54 dBA (peripherals idle, at 1 meter)

Demonstrated MTBF

Minimum 50,000 hours (based on sample testing in accelerated stress environment)

Regulatory Compliance

Meets or exceeds the following:

Safety:	CSA NRTL/C, VDE EN60950, CE Mark per European Low Voltage Directive 72/23/EEC
EMC:	U.S.: FCC Part 15, Subpart B, Class A (non-residential) Canada: ICES-003, Class A (non-residential) Europe: CE Mark per European EMC Directive 89/336/EEC with Amendments; Emissions: EN55022 Class A; Immunity: EN50082-1

Ordering Information

Part Number	Description
CPX2408:	Chassis with backplane and 400 watt PS/2® style power supply (for system configurations)
CPX2408-K:	Chassis with backplane and 400 watt PS/2 style power supply (for use as a spare)
CPX2408T:	Chassis with H.110 backplane and 400 watt PS/2 style power supply (for system configurations)
CPX2408T-K:	Chassis with H.110 backplane and 400 watt PS/2 style power supply (for use as a spare)
CPXFP-K:	4HP (single CompactPCI slot) front or rear blank panel
SBCs available for use in the CPX2408	
CPV5300:	266 or 333 MHz Pentium II, up to 512MB RAM, on-board hard disk or floppy options
CPV5350:	266 or 333 MHz Pentium II, up to 256MB RAM, 16MB on-board Flash drive, hot swap enabled

For additional options including peripherals and I/O modules, contact your local Motorola representive.

Note: The single-board computer module, system monitor and drives pictured in the photo are not included with the CPX2408 enclosure.

For more information, visit our World Wide Web site at **http://www.mcg.mot.com**
To call us dial **1-800-759-1107** in the U.S. and **512-434-1526** outside of the U.S.
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Data Sheet: C2408-D1 5/99

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