



Highlights

- >> High-Density 6U x 2-Slot Storage Expansion Blade
- >> CompactPCI® and PICMG® 2.16 Compatible
- >> 800 GB or 2 TB Storage
- >> Board-Level and Disk-Level Hot-Swap
- >> Headless Operation for Drive Removal and Insertion
- >> Two SATA Channels Routed to the Mid-Plane
- >> Dual Enterprise-Class 3.5-in. SATA Hard Disk Drives
- >> PICMG® 2.9 Compatible with Onboard IPMC

The CPC5910 is a high-performance, high-availability SATA expansion blade that supports 800 GB or 2 TB of storage. Each blade features two 3.5-in. Enterprise-class SATA hard drives with both board-level and drive-level hot-swap for complete flexibility and high reliability. The CPC5910 can be connected to the high-performance CPC5564 64-bit Single Board Computer (SBC) to provide additional storage capacity or to off-load the locally attached single hard drive on the SBC, which provides more reliability, higher capacity, and higher performance.

Connectivity to the SATA interface is achieved by employing a RTM4810 Rear Transition Module with an external Multilane SATA cable. Drive and blade monitoring is possible with a serial connection from the host blade to the front or rear panel of the CPC5910. The CPC5910 also supports IPMI-based management with the onboard IPMC controller.

With the flexibility to configure the hard drives as needed inside the platform, the CPC5910 lowers the overhead costs associated with dedicated storage platforms and simplifies infrastructure configuration.

Storage Capacity

The CPC5910 storage blade features two Enterprise-class 3.5-in. SATA hard drives. As storage manufacturers increase hard drive capacity, Performance Technologies will accommodate these new drives. Currently, the CPC5910 includes either two 400 GB or two 1 TB 3.5-in. Enterprise-class SATA hard drives. The CPC5910 provides up to 2 TB of storage when configured as a RAID 0 array or used as stand-alone drives and up to 1 TB when mirrored as a RAID 1 array.

Cost Control

Connecting to external network attached storage can be expensive. It typically requires separate chassis, sparing, cabling, power delivery, and management tools. Integrated storage is easily added to any existing PICMG® 2.16 architecture. Discrete system hard drives and external storage devices can be consolidated inside a single chassis. Sparing, hot-swapping, and infrastructure configuration are greatly simplified. In short, total cost of ownership for storage is reduced.

Ordering Information

>> **PT-CPC5910-12157**
SATA Storage Expansion Blade with two 400 GB hot-swappable SATA drives. Requires CPC5564 host board and RTM4810 rear transition module with SATA chain cable.

>> **PT-CPC5910-12278**
SATA Storage Blade with two 1 TB Drives

Accessories

>> **PT-ACC5970-12160**
400 GB SATA Drive Module/FRU

>> **PT-ACC5970-12279**
1 TB SATA Drive Module/FRU

>> **PT-RTM4810**
Rear Transition Module

>> **PT-ACC324-11977**
Console Port Cable

>> **PT-ACC4810-12161**
0.5 m (1.6 ft) SATA Cable for linking to other RTM4810 boards in the same chassis



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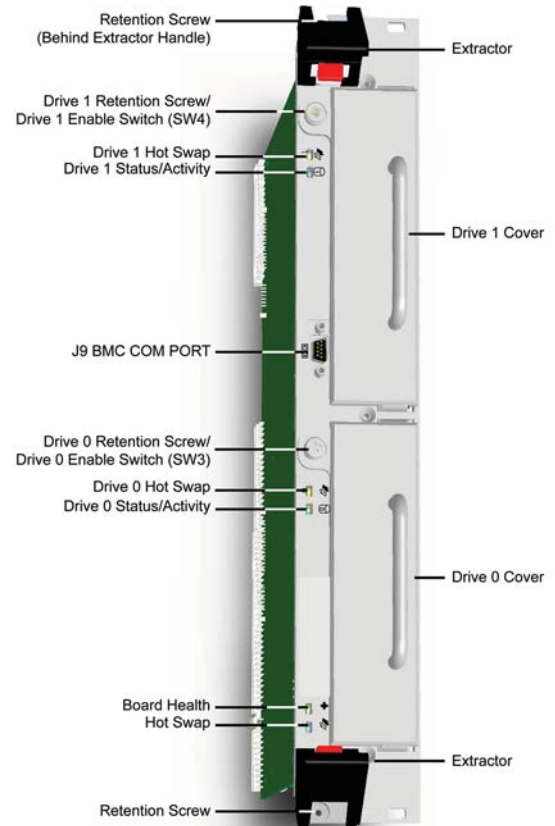
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Headless Operation

While some storage solutions require console access to remove or add a hard drive, the CPC5910 features "Automated Drive Management," (ADM), which doesn't require logging into the system. Automated Drive Management allows safe extraction of drives without data corruption by deactivating drives prior to drive removal. An LED on the front panel indicates when the drive is ready for removal. Automated Drive Management automatically detects, configures, and remounts a newly inserted drive into the RAID array or file system. There are multiple LED indicators for each drive to communicate drive status to the user. The ADM system is completely user configurable to customize the actions performed on drive extraction, insertion events, and the behavior of the LED indicators on the front panel.



Technical Specifications

The CPC5910 is compliant with the following specifications:

- PICMG® 2.0 R3.0 (CompactPCI®) and PICMG® 2.1 R2.0 (Hot-Swap) Specifications
- PICMG® 2.16 (Packet Switched Backplane) and 2.9 (CompactPCI System Management)
- Designed for NEBS level-3 and ETSI installations
- Standard IPMI 1.5 specification

Environmental

- Required airflow: 250 linear feet per minute (LFM)
- Operating temperature: 5 to 50°C (41 to 122°F)
- Storage temperature: -40 to 85°C (-40 to 185°F)
- Non-condensing relative humidity: less than 95% at 40°C (104°F)

Dimensions

- Dual width CompactPCI® form factor, 6U x 4HP, 233 mm x 160 mm (9.17 in. x 6.3 in.)

Power Requirements

- With hard disk: 20 W typical, 35 W maximum

Agency Certifications

- FCC Class A
- CE
- UL 60950
- EN 60950
- ETSI EN 300 386
- Designed to meet the requirements of NEBS Level 3

MTBF

- 391,931 per Bellcore SR-332