

Built on the intelligent AMP[™] Architecture



With the advent of packet-switched backplanes and intelligent shelf management, the basic definition of a standards-based platform begins to change. As platforms evolve to include these new and critical functions, they include not only the chassis, midplane, power and cooling architecture, but also the PICMG® 2.16 packet-switched backplane and PICMG 2.9 intelligent platform management interface (IPMI) standards.

The Advanced Managed Platform offering is comprised of Performance Technologies' embedded packet products and offers the most complete set of high availability, system management, switching, power and cooling features on the market. This enhanced platform line gains its strength from being based on the PICMG 2.16 and 2.9 standards.

The platform architecture, equipped with a new PICMG 2.9-compliant intelligent shelf manager (ISM), offers the ability to manage all the IPnexus[™] chassis elements as well as third-party, PICMG 2.16-based components. Bundled with the industry's broadest line of 10/100 and Gigabit Ethernet switches and high density power supplies, the Advanced Managed Platform offering provides equipment manufacturers and system integrators the basis to go beyond fivenines availability while handling the high performance computing requirements of next-generation, packet-based systems.

The complete Advanced Managed Platform offering is designed with flexibility and scalability to support a wide range of communications or embedded applications by offering a management architecture, that delivers reliable, intelligent and comprehensive management throughout all active platform components. In conjunction with the complete IPnexus product family, including switches, single board computers, I/O cards and enabling software, Performance Technologies delivers a complete, compatible and configurable set of components for developing next-generation systems.

The Advanced Managed Platform offering is designed specifically for high availability solutions. Examples include wireless applications (3G Mobile Switching Center, GGSN or Radio Network Controller), IP telephony (gateways, switches or server clusters), Wi-Fi gateway/switches, business critical server clusters (transaction processors) and medical controls.

Highlights

- >> Intelligent and Comprehensive Shelf Management
 - Throughout all active components in the platform
 - Manages nodes, switches, power supplies and cooling

>> High Availability/Fault Tolerance

- Redundancy and fault tolerance built into active components and power architecture
- >> World-Class Switching • Layer2/3, load-sharing, secure

>> Performance/Density

- Power & cooling for next-gen high performance computing components and switches
- Sompatibility throughout the comprehensive IPnexus[™] product line

Sample Configurations

12U General Purpose PICMG 2.16 Packet-Switched Platform

- NEBS-designed chassis
- •21 slots, with 18 payload slots
- Three midplane options;
 - CPC5086 (no CompactPCI bus)
 - ZT 5088e (four CompactPCI bus segments)
 - ZT 5085e (two CompactPCI bus segments)
- Dual Gigabit or 10/100 Ethernet switches (CPC4416/CPC6600)
- Dual CPC7301 ISM modules
- · Redundancy and hot-swap throughout all active components
- · Hot-swap power supplies (CPC6314/ZT 6303)

7U PICMG 2.16 Packet-Switched Platform

- CPC5095 7U NEBS-designed chassis
- •11 slots, eight payload slots
- Dual Gigabit or 10/100 Ethernet switches (CPC4416/CPC6600)
- Dual CPC7301 ISM modules
- · Redundancy and hot-swap throughout all active components
- N+1 AC or DC power supplies
- Up to 80W per slot power and cooling

4U General Purpose PICMG 2.16 Packet-Switched Platform

- IPnexus ZT 5091e 4U NEBS-designed chassis
- Eight slots
- Single Gigabit or 10/100 Ethernet switch (CPC4416/CPC4411/CPC6600)
- Dual CPC7301 ISM modules
- Hot-swap of all active components
- Hot-swap power supplies (CPC6314/CPC6304)

All platform components can be purchased individually. Datasheets containing full details are available at www.pt.com.

Contact Information

Performance Technologies

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Requirements	AMP Features
High Availability	Comprehensive Redundancy
- No single point of failure	- Power input (4U, 7U, 12U)
- Five-nines, six-nines, approaching 100%	- Power supplies (4U, 7U, 12U)
	- Cooling architecture (7U, 12U)
Benefits:	- Shelf management (7U, 12U)
- Reduces loss of revenue or service	- Dual star packed switched backplane (7U, 12U)
- Reduces cost of ownership	- Isolated power domains on ZT 5088e midplane
	Fault Tolerance - Intelligent Failover
	- Ethernet switches
	- Intelligent shelf managers
	- Line access cards
	- Single board computers
	- Power supplies with IPMI
	Intelligent Management with Predictive Analysis
Comprehensive Management	Intelligent Shelf Manager (CPC7301)
- Standards-based, 3rd party compatibility	- IPMI-based; PICMG 2.9 compatible
- Fault-tolerant	- Redundant, fault-tolerant active/standby mode
- Reliable management to all active	- Synchronization, watchdog, fail-safe and remote updating
components	- Star topology - ultimate reliability
- Comprehensive	- Isolated links to each managed component
- Predictive analysis	- Comprehensive management:
	- Power management
Benefits:	- Asset management - FRU info
- Increases high availability	- Sensor management - fault prediction and detection
- Reduces cost of ownership	- Comprehensive software interfaces
	- SNMP, CLI, RMCP, Web, Telnet, SSH
Comprehensive Switching	Ethernet Switches
- Standards-based, 3rd party	- PICMG 2.16-compliant
compatibility	- Supports non PICMG 2.16 mode
- Fault-tolerant	- Fault-tolerant/reliable
- Manageable	- Continuous health checking
- Reliable	- Seamless failover (maintaining network connections)
- Comprehensive	- Full wire speed Layer2/Layer3 switching
- Load-sharing	- Comprehensive features
- Network security	- 802.3AD link aggregation
	- 802.1q VLANs
Benefits:	- 802.1p QoS/CoS
- Increases performance	- Advanced fast filter processor for wire speed Layer 2-7 packet
- Reduces cost of ownership	classification and filtering
	- Fully managed via HTTP, CLI and SNMP
	- Jumbo frames for iSCSI applications
	CPC6600: 24-port 10/100/1000 TX switch
	- Fully featured Layer2/3+ switch
	CPC4416: 24-port 10/100 + 2 Gigabit uplinks switch - NAT/load-sharing and IP tunneling options

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High Performance Power and Cooling	CPC6314 325W DC Power Supply
 Support for next-gen single board computers (up to 50W/slot) Intel® Pentium® M/ Pentium 4 SBCs More memory (1-4GB) Support for fast networks (up to 70W/fabric slot) Gigabit Ethernet switches Redundant - no single point of failure Manageable Benefits: Higher performance High availability 	 Full set of power supplies deliver up to 1300W power to 12U chassi This equates to max of 50W/slot and 70W/ fabric slot IPMI management provides intelligent monitoring Can predict power supply failures before they happen Asset management 12U Platforms Designed to power and cool 1300W This equates to max of 50W/slot and 70W/fabric slot Redundant N+N power supply architecture Redundant N+1 cooling architecture No single point of failure 7U Platforms Designed to power and cool 975W This equates to max of 80W/slot and 70W/fabric slot Redundant N+1 power supply architecture No single point of failure
	4U Platforms - Designed to power and cool 500W - This equates to max of 50W/slot, and 60W/fabric slot - Redundant N+1 power supply architecture - Redundant N+1 cooling architecture - Redundant N+1 cooling architecture
Platform Flexibility - Midplane flexibility - Shelf management flexibility	Flexible and Scalable Midplanes - Supports CompactPCI and packet-switched applications - Supports multiple configurations - Ample number of slots to insert additional computing or I/O devices as application grows Flexible ISM
	 Complete single board computer with CPU, memory, operating system and peripherals User-defined capabilities 128MB DDR SDRAM scalable to 1GB
Serviceability - Hot-swap components - Front serviceable components - Health/status LEDs Remote Management	 12U & 7U Platforms All active components are hot-swappable All active components are front serviceable All active components support Health/Status LEDs ISM enables remote management of all active components
Compatibility - Standards-based - Designed for compatibility - Tested for compatibility - One vendor to support compatibility issues	Extensive IPnexus Product Line - Platforms and shelf management - Ethernet switches - Single board computers - I/O and communication products - SS7 signaling products - Enabling software
NEBS Compatibility	Single Tech Support Group - Configured to order Platforms Meet GR-1089-CORE Specs - Electrical discharge
	- Emissions Platforms Meets GR-63-CORE Specs - Shock and vibration, earthquake - Operating temperature and humidity Acoustic Noise - Redundant N+1 cooling architecture

Ordering Information

Available platforms include:

- >> 7U PICMG 2.16 Platform
- >> 12U General Purpose PICMG 2.16 Platform
- >> 12U General Purpose PICMG 2.16 Packet-Switched Platform
- >> 12U Redundant Host PICMG 2.16 Packet-Switched Platform
- >> 4U General Purpose PICMG 2.16 Packet-Switched Platform

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