

ComputeNode™ Compact PCI Chassis Products



Product Feature Guide

ComputeNode™
Carrier-grade cPCI solutions

PDSi's **ComputeNode** line offers a range of NEBS Level 3-compliant Compact PCI chassis in sizes from 1U to 4U. With horizontal design and superior air cooling functionality, ComputeNode chassis are cost-effective platforms providing the highest levels of quality and manageability in mission-critical applications. These carrier-grade chassis include cPCI and cPSB (PICMG 2.16) backplanes, redundant hot-swappable fans, and hot-swappable front accessible AC or dual-feed DC power modules with power filters in most cases.



All 2U and larger ComputeNode platforms include PDSi's unique Alert!Node™ (or Enhanced Alert!Node) alarm card, an intelligent chassis management controller for comprehensive fan and power monitoring. The Alert!Node card does not occupy a CompactPCI slot, front or rear. As a passive out-of-band management entity, it does not affect system operation if it fails, and can be safely replaced in a live system.



OEMs and independent software vendors (ISVs) seeking robust cPCI platforms on which to deliver their value-added solutions can also take advantage of PDSi's design, integration, and support services - including custom board and system design, validation and certification, production assembly and test, as well as extended service programs.

Key Benefits

- Proven NEBS Level 3 compliant design
- Designed for High Availability Applications
- Redundant Hot-swap Fans
- Redundant AC or DC Power Supplies
- Power Filters and Dual Feed Power
- Easily serviced
- Broad range of chassis choices
- 1,2,3 and 4 U sizes
- cPCI and 2.16 (cPSB) backplanes
- Alert!Node intelligent chassis manager
- Customization and Integration services available

Trusted by OEMs worldwide

ComputeNode platforms are trusted by OEMs and ISVs to deliver mission critical solutions across the globe. Typical applications include:

- Telco ring tone and ring-back tone servers
- IP Gateways
- Security
- Call Centers
- SS7 Gateways
- VOIP
- Radio Network Controllers
- Digital Transcoding Gateways

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*cPCI boards shown installed are for illustration only
- not included*



ComputeNode 1U cPCI Chassis

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901425R-4Y	1U AC 2-Slot cPCI System 2 Slot Front and 2 Rear Slots, 4 internal fans.	AC 200W	Bay Grey	none	none
1-901427R-4Y	1U DC 2-Slot cPCI System 2 Slot Front and 2 Rear Slots, 4 internal fans.	DC 200W	Bay Grey	none	none



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ComputeNode 1U Dual DC cPCI Chassis

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901471R-Y	1U Dual DC 2-Slot cPCI System 2 Slot Front and 2 Rear Slots; Includes Front and Rear Tri-color LED, 4 internal fans with Front Fan Filter.	DC Dual Feed 200W	Bay Grey	Internal Alarm monitors fans and power supply with Dry Contact output	Contact PDSi with requirements



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ComputeNode 2U cPCI Chassis

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901362R-A00	2U Dual Feed AC 4 Slot cPCI System 4 Slot Front (3 with H.110) and 4 Rear Slots; Dual Front and Rear Hot Swap Fan Modules.	2 x AC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-2)	none
1-901347R-A00	2U Dual Feed DC 4 Slot cPCI System 4 Slot Front (3 with H.110) and 4 Rear Slots; Dual Front and Rear Hot Swap Fan Modules	2 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-2)	none

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ComputeNode 3U cPCI Chassis

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901366R-Ax0	3U AC 6 Slot cPCI System 6 Slot Front and 6 Rear Slots; 5 Node Slots (H.110); Quad Front and Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay.	2 x AC 250 Watt each. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available
1-901369R-Ax0	3U Dual Feed AC 6 Slot cPCI System 6 Slot Front and 6 Rear Slots; 5 Node Slots (H.110); Quad Front and Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay.	2 x AC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available
1-901367R-Ax0	3U Dual Feed DC 6 Slot cPCI System 6 Slot Front and 6 Rear Slots; 5 Node Slots (H.110); Quad Front and Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay.	2 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available



*Bottom slot shows 2 installed 3U switches included.
Other cPCI boards shown are for illustration only.*

ComputeNode 3U cPSB Chassis (PICMG 2.16) with 2 - 3U Switches installed

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901370R-Ax0	3U AC 6 Slot cPSB System 6 Slot Front and 6 Rear Slots; 4 Node Slots (H.110); 2- 3U Switch Fabric Slots (occupies 1- 6U Slot). 2 Ethernet Switches (1-505735) installed with RTMs. Dual GigE Uplink Ports and 10/100 Switch Fabric, Layer 2; Quad Front and Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay.	2 x AC 250 Watt each. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available
1-901371R-Ax0	3U Dual Feed AC 6 Slot cPSB System 6 Slot Front and 6 Rear Slots; 4 Node Slots (H.110); 2- 3U Switch Fabric Slots (occupies 1- 6U Slot). 2 Ethernet Switches (1-505735) installed with RTMs. Dual GigE Uplink Ports and 10/100 Switch Fabric, Layer 2; Quad Front and Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay.	2 x AC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available
1-901372R-Ax0	3U Dual Feed DC 6 Slot cPSB System 6 Slot Front and 6 Rear Slots; 4 Node Slots (H.110); 2- 3U Switch Fabric Slots (occupies 1- 6U Slot). 2 Ethernet Switches (1-505735) installed with RTMs. Dual GigE Uplink Ports and 10/100 Switch Fabric, Layer 2; Quad Front and Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay.	2 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available

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ComputeNode 4U cPCI Chassis

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901361R-Axx	4U AC 8 Slot cPCI System 8 Slot Front and 8 Rear Slots; 7 Node Slots (H.110); Quad Front and Dual Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay. Optional rear-serviceable Air Filter 1-504630R available	3 x AC 250 Watt each. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available
1-901349R-Axx	4U Dual Feed DC 8 Slot cPCI System 8 Slot Front and 8 Rear Slots; 7 Node Slots (H.110); Quad Front and Dual Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay. Optional rear-serviceable Air Filter 1-504630R available	3 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available



*Bottom slot shows 2 installed 3U switches included.
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ComputeNode 4U cPSB Chassis (PICMG 2.16) with 2 – 3U Switches Installed

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901380R-Axx	4U AC 8 Slot cPSB System 8 Slot Front and 8 Rear Slots; 6 Node Slots (H.110); 2- 3U Switch Fabric Slots (occupies 1- 6U Slot). 2 – 3U Ethernet Switches (1-505735) installed with RTMs. Dual GigE Uplink Ports and 10/100 Switch Fabric, Layer 2; Quad Front and Dual Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay. Optional rear-serviceable Air Filter 1-504630R available	3 x AC 250 Watt each. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available
1-901381R-Axx	4U Dual Feed DC 8 Slot cPSB System 8 Slot Front and 8 Rear Slots; 6 Node Slots (H.110); 2- 3U Switch Fabric Slots (occupies 1- 6U Slot). 2 – 3U Ethernet Switches (1-505735) installed with RTMs. Dual GigE Uplink Ports and 10/100 Switch Fabric, Layer 2; Quad Front and Dual Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay. Optional rear-serviceable Air Filter 1-504630R available	3 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Alert!Node smart alarm card included (1-505734-3)	Optional tray- mounted 73GB SCSI available

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ComputeNode 4U cPSB Chassis (PICMG 2.16) with Dual 6U Switch Slots

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901529R-ExF	4U AC 8 Slot cPSB System cPSB Backplane, 8 Slot Front and 8 Rear Slots; 6 Node Slots (H.110); Two 6U Switch Fabric Slots. (System Slot, 5 Node Slots (H.110); 1 Fabric Slot may be Node Slot.) Utilizes 2 Ethernet PICMG 2.16 Fabric Switches (Not Supplied). Quad Front and Dual Rear Hot Swap Fan Modules; Power Filter Module; 3.5" SCSI Disk Bay. Includes rear-serviceable Air Filter 1-504630R	3 x AC 250 Watt each. Power Filter Module	Bay Grey	Includes Enhanced Alert!Node Alarm card. (1-505701)	Optional 73GB SCSI
1-901528R-ExF	4U Dual Feed DC 8 Slot cPSB System cPSB Backplane, 8 Slot Front and 8 Rear Slots; 6 Node Slots (H.110); Two 6U Switch Fabric Slots. (System Slot, 5 Node Slots (H.110); 1 Fabric Slot may be Node Slot.) Utilizes 2 Ethernet PICMG 2.16 Fabric Switches (Not Supplied). Quad Front and Dual Rear Hot Swap Fan Modules; Power Filter Module; 3.5" SCSI Disk Bay. Includes rear-serviceable Air Filter 1-504630R	3 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Includes Enhanced Alert!Node Alarm card. (1-505701)	Optional 73GB SCSI



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ComputeNode 4U cCPI Quad Domain Chassis

OPN	Description	Power	Color*	Alarming	Hard Drive
1-901472R-ExF	4U Dual Feed DC 8 Slot cCPI System with Quad 2-Slot Domains 8 Slot Front and 8 Rear Slots grouped in pairs; Quad Front and Dual Rear Hot Swap Fan Modules; 3.5" SCSI Disk Bay, Includes rear-serviceable Air Filter 1-504630R	3 x DC 250 Watt each. Dual feed. Power Filter Module	Bay Grey	Includes Enhanced Alert!Node Alarm card. (1-505701)	Optional 73GB SCSI

* Custom colors can be supplied – contact PDSi



Ordering Information

For ComputeNode 3U and 4U products:

OPN: **1-901***R** - wxy

where:

w = Type of alarm card installed

x = Hard drive option installed

y = Air filters installed

Use the following table to create or interpret configured OPN's.

<i>Chassis</i>	<i>Installable Options</i>
3U PCI <ul style="list-style-type: none"> • AC 1-901366R-Ax0 • Dual AC 1-901369R-Ax0 • Dual DC 1-901367R-Ax0 3U PSB <ul style="list-style-type: none"> • AC 1-901370R-Ax0 • Dual AC 1-901371R-Ax0 • Dual DC 1-901372R-Ax0 	Alarm card <ul style="list-style-type: none"> • A = Alert!Node (1-505734-3) installed – standard HD <ul style="list-style-type: none"> • 0 = none • H = 73GB SCSI in front tray, connector in rear Air Filter <ul style="list-style-type: none"> • 0 = none (not offered)
4U PCI <ul style="list-style-type: none"> • AC 1-901361R-Axx • Dual DC 1-901349R-Axx 4U PSB w/ 2- 3U switches <ul style="list-style-type: none"> • AC 1-901380R-Axx • Dual DC 1-901381R-Axx 	Alarm card <ul style="list-style-type: none"> • A = Alert!Node (1-505734-4) installed - standard HD <ul style="list-style-type: none"> • 0 = none • H = 73GB SCSI in front tray, connector in rear Air Filter <ul style="list-style-type: none"> • 0 = none • F = air filter kit (1-504630R) installed
4U PSB <ul style="list-style-type: none"> • AC 1-901529R-ExF • Dual DC 1-901528R-ExF 4U Quad <ul style="list-style-type: none"> • Dual DC 1-901472R-ExF 	Alarm card <ul style="list-style-type: none"> • E = Enhanced Alert!Node (1-505701) installed - standard HD <ul style="list-style-type: none"> • 0 = none • H = 73GB SCSI in front tray, connector in rear Air Filter <ul style="list-style-type: none"> • F = air filter kit (1-504630R) installed - standard