



Business Partner 



ORACLE Gold Partner

ComputeNode™ 1U Dual AC



1U High

Carrier Grade

Dual AC Power

Customizable

Pinnacle's management system is certified to:

ISO 9001
ISO 14001
ISO 13485
TL9000

SYSTEM OVERVIEW

PDSi's ComputeNode 1U Dual AC is a High Availability CompactPCI® solution developed for the embedded control and communications marketplace. The ComputeNode 1U Dual AC features redundant power supplies, two-slot cPCI server in a 1U form factor (1.75" high with options for 19" or 600 mm wide ANSI T1.336-2003 racks), and may be densely packed into any new design or existing rack.

This unit offers PDSi's compact horizontal design, containing a two-slot cPCI backplane for use with both front and rear transition cards. It includes dual input AC feeds, a system alarm card and a front removable air filter.

The ComputeNode 1U Dual AC integral system alarm is designed to communicate with a cPCI card's BMC (Base Board Management Controller) over I2C. The alarm monitors the status of the fans and power supply output voltages. It also provides front and rear LEDs for visual alarming and a dry contact connection for alarm signaling to external equipment. The alarm is integrated into the chassis and does not occupy either cPCI slot.



PDSi's ComputeNode 1U Dual AC enables solution providers to offer inexpensive solutions with extremely high levels of availability, incrementally growing products while retaining an open system designed for rapid expandability.

As with all PDSi products, ComputeNode 1U Dual AC combines expert Rapid Product Realization design, branding and testing services for a complete SKU, utilizing customer-specified third party components or Commercial off-the-shelf products (COTS), greatly reducing time to market.

Key Differentiators

- Dual AC, fixed power supply with dual power input feeds
- Integral Alarm with Dry Contact RJ45 Port
- Carrier Grade design (*similar designs have passed NEBS*)
- Front air intake and rear/side exhaust
- Customization and ruggedization options available

Mechanical Specifications

Height	1U (44.5 mm/1.75 in.)
Width	432 mm (17.0 in.)
Depth	343 mm (13.5 in.)
Enclosure	19" or 600 mm wide ANSI T1.336-2003
Mounting Points	Mounting brackets to support front, mid-mount and custom requirements

System Module Configuration

- Two 6U cPCI slots with corresponding RTMs
- 1 system slot
- 1 I/O slot

System Cooling

- Front in to rear/side out airflow
- Consult factory for custom high velocity fans

Alarm Features

- Power supply failure
- Fan stop detect



Rear Power Input and Alarming View

Power Options

Based on manufacturer rating for single power supply

- AC Power 240W (5V@20A; 3.3V@20A; 12V@20A; -12V@0.3A)
- AC Input 100-240VAC full range, 50/60Hz

Regulatory

Designed To FCC Class A, EU CE Mark, UL 60950-1, UL/cUL, ETSI

Alarm Outputs

- LEDs front and rear
- Rear dry contact

Environmental Specifications

Temperature Range Operating: 0°C to 40°C
(-5°C to 55°C testing is pending)

Storage: -20°C to 80°C

Customizable Options

- System integration
- Product branding and labeling options are available through chassis color, top cover and filler panel changes
- Backplane redesign

Warranty & Service

Standard Warranty One year parts and labor, return to factory

Service Plans Standard 8x5, Monday-Friday; Custom plans available, please contact your local PDSi Representative.

CompactPCI® 



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