



**Pinnacle
Data
Systems,
Inc.**

Pinnacle Data Systems, Inc.

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Embedded Computing Solutions

Performance and Longevity by Design



**Single-Board
Computers**



**Video & Graphics
Solutions**



**Networking &
Communication**



**Storage
Products**

PDSi is a global provider of specialized embedded computing products. We offer a wide range of technology platforms including standard and custom-designed products for the telecom, defense/aerospace, medical, semiconductor, industrial automation and IT markets.

Our product capabilities range from board-level designs to globally-certified, fully integrated systems.

Our specialties include long-life, embedded products and unique, customer-centric solutions.

Advanced TCA[®]

**Processor Blades &
RTMs**



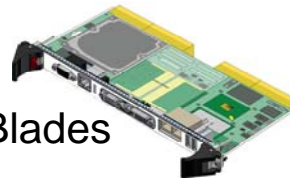
Advanced MC[™]

Modules



VME

Processor Blades



PMC/XMC

**Graphics,
Ethernet, Storage**



Compact PCI[®]

**Blades &
Chassis**



Featured Products

ATCA-F1 Dual AMD Opteron[®]
ATCA Processor Blade

ATCA-RT01 Rear Transition
Module - Video and Storage

CP86-N1 Intel Core[™] 2 Duo cPCI
x86 Processor Blade and RTM

AMC-E24D ATI E2400 Graphics
& Storage Module

VM86-N1 Intel Core[™] 2 Duo VME
x86 Processor Blade

VM86-N2 Intel Core[™] 2 Duo VME
x86 Processor Blade with SCSI

XMC/PMC-E24D Dual Display ATI
E2400 XMC & PMC Graphics

XMC-GBX4 Quad Gigabit
Ethernet XMC Adaptor

XMC/ PMC-SD18 HDD or SSD
XMC & PMC Storage Modules

COMX-S1 AMD Socket S1 COM
Express Module

ComputeNode 1U-4U cPCI and
cPSB Chassis



**World
Wide
Locations**

Americas
EMEA
APAC

www.pinnacle.com



ATCA-F1 Dual AMD Opteron[®] Processor Blade



Military-proven

Hi-performance server platform has been military-tested for Aerospace, Navy and other critical systems.

Two dual-core or quad-core AMD Opteron CPUs for high performance and low power consumption.

Up to 32 GB memory at up to 667 MHz.

AMC site and RTM interface for I/O expansion capability (using PDSi ATCA-RT01).

NEBS level 3 compliant.

Windows, Linux compatible.

VMWare Certified.



ATCA-RT01 Advanced RTM with Video + Storage



**x86 and SPARC
compatible**

Provides high-reliability SAS storage, VGA video output and additional I/O functionality for systems using PDSi ATCA-F1, Sun Microsystems Netra[™] CP3220, CP 3250, or CP3260 blades.

Up to 146 GB SAS onboard, 3 external channels.

VGA graphics up to 1600 x 1200.

2 x GbE, 2 x USB, 1 x serial ports.

NEBS level 3 compliant.

Windows, Linux, Solaris compatible.

VMWare Certified.



VME

VM86-N1 & VM86-N2 Intel[®] Core[™] 2 Duo Processor Blades



**Legacy
Compatible**

Low power, high performance VME compute blades are drop-in replacements for legacy 7750/7751 designs.

Intel Core 2 Duo processor and 5100 MCH chipset.

Up to 4GB DDR2 667 ECC memory.

VGA graphics up to 2048 x 1536 resolution.

2 GbE, 2 USB, 2 Serial, 1 PS/2.

VM86-N2 offers dual SCSI channels plus PMC sites

Optional 2.5" SATA HDD up to 320 GB.

Windows and Linux compatible, others by request.

XMC

XMC-GBX4 Quad Gigabit Ethernet Adaptor



intel
Gigabit
Ethernet
Controllers

A high-performance, low latency XMC network adaptor providing four high-speed Ethernet interfaces.

Intel 82571EB controller eliminates performance bottlenecks and efficiently handles packets, including jumbo frames.

4 x GbE copper ports, with front-mounted RJ-45 connectors and full status indicators.

Optionally up to four rear-accessible SERDES ports.

Windows, Linux, Solaris x86 compatible.

PDSi also offers OEM design, integration, and support services around these platforms.

CompactPCI®

ComputeNode™ 1U - 4U cPCI and cPSB Chassis Family



Cost-effective carrier-grade chassis in sizes from 1U to 4U, providing the highest levels of quality and manageability in mission-critical applications.

Horizontal design and superior air cooling.

cPCI and cPSB (PICMG 2.16) backplanes.

Redundant hot-swappable fans, and hot-swappable front accessible AC or dual-feed DC power modules.

Unique Alert!Node™ alarm card – an out-of-band chassis management controller.

NEBS level 3 compliant.

CP86-N1 Intel® Core™ 2 Duo Processor Blade



Compact server-class PICMG 2.16-compliant compute blade featuring the latest Intel Core 2 Duo T9400 processor and high-end 5100 MCH chipset.

Up to 8GB DDR2 667 ECC memory.

1 PMC/XMC site standard.

Available with onboard 2.5" SATA HDD and VGA graphics, or alternately a 2nd PMC site.

Front 2-GbE and 2-USB, plus optional serial.

RTM provides additional video, SATA, GbE & USB.

Windows and Linux compatible, others by request.

PMC/XMC

XMC-E24D and PMC-E24D Dual Display ATI E2400 Graphics Cards



Versatile, low cost, high performance graphics mezzanine cards featuring the ATI Radeon™ E2400 graphics controller.

Bring modern graphics to cPCI and VME systems.

Independent DVI-I and VGA outputs.

Supports 2D and 3D graphics at resolutions up to 1600x1200 (digital) and 2048x1536 (analog) with 32-bit color.

Windows and Linux compatible.

XMC-SD18 and PMC-SD18 Compact SATA Storage Cards



SSD or HDD Storage

Add high-capacity SATA storage to cPCI, VME and ATCA blades with these unique XMC and PMC cards.

Ultra-compact 1.8 inch microSATA drives.

Choose from cost-effective rotating HDD or high-reliability SSD options.

Storage capacities up to 250 GB.

Front and rear SATA I/O channels on XMC, rear-only on PMC

Windows, Linux, Solaris compatible.

Specialized manufacturing programs available. Contact us with your requirements.

COMX-S1 AMD Socket S1 COM Express Module



Low cost, compact, embeddable computing core in the COM Express Type 2 form factor. Fits a broad range of OEM applications - especially effective where multiple graphical displays are required.

Choose ultra low-watt AMD Sempron™ processors (ideal for fanless applications) or the dual-core muscle of AMD Turion™ X2 Mobile Technology. Offers exceptional built-in graphics.

Active and passive heatsink solutions available.

Long-lifecycle support assured.

Windows and Linux compatible.

AMC-E24D Dual Display & SATA Storage Module



SSD or HDD Storage

Dual hi-resolution graphics plus SATA storage in one convenient mid-size AMC package. Perfect for use in ATCA carriers and blades or uTCA racks.

Independent HDMI/DVI and VGA outputs.

Supports 2D and 3D graphics at resolutions up to 1600x1200 (digital) and 2048x1536 (analog) with 32-bit color.

2.5 inch SATA HDD to 320GB, or select rugged Intel Advanced Solid State drives.

Windows and Linux compatible.

Need Something Special?

PDSi supplies these and many other embedded products to some of the world's largest OEMs. We design for extended lifecycles and will support for far longer than most. We will customize these products to specific requirements, integrate them into OEM solutions, and certify them for the customer's chosen markets.

We specialize in tailoring our manufacturing programs to fit each OEM's business and operational processes, and through our regional facilities we provide service and support across the globe. Contact us with your special requirements.

- ★ *Long-Lifecycle Designs*
- ★ *Product Customization*
- ★ *Specialized Manufacturing*
- ★ *Global Service and Support*

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