



**Pinnacle
Data
Systems,
Inc.**

Pinnacle Data Systems, Inc.

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http://www.pinnacle.com

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.



**World
Wide
Locations**

Americas
EMEA
APAC

ATCA-F1



Advanced TCA[®]
Processor Blades &
RTMs

AMC-A2



Advanced MC[™]
Processor
Modules

XMC-E24D



PMC/XMC
Graphics, Ethernet,
Storage

4U cPSB



Compact PCI[®]
Processor 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
Processor Blade

AMC-A2 AMD Athlon[®] Processor
AMC Module

PMC-E24D Dual Display ATI
E2400 Graphics PMC Module

XMC-E24D Dual Display ATI
E2400 Graphics XMC Module

XMC-GBX4 Quad Gigabit
Ethernet XMC Adaptor

XMC-SD18 HDD and SSD XMC
Storage Module

PMC-SD18 HDD and SSD PMC
Storage Module

COMX-S1 AMD Socket S1 COM
Express Module

ComputeNode 1U-4U cPCI and
cPSB Chassis



www.pinnacle.com

ATCA-F1 Dual AMD Opteron® Processor Blade



A robust general-purpose server platform for Telecom, Aerospace, Military, and Enterprise ATCA systems.

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

Up to 32 GB 667 MHz memory.

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

NEBS level 3 compliant.

Windows, Linux, Solaris 10 (x86) compatible.

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 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 and Solaris 10 (SPARC) compatible.

AMC-A2 AMD Athlon® Processor Module



Cost-effective PrAMC module provides exceptional computing performance and low power consumption as a result of AMD 64 technology and rigorous, innovative design.

Single-core or dual-core AMD Athlon processor.

Up to 2GB ECC DDR2.

Front – 2 USB and 1 Serial; Rear - 2 GbE, 1 PCIe x4, 2 SATA.

NEBS level 3 compliant.

Windows and Linux compatible.

XMC-GBX4 Quad Gigabit Ethernet Adaptor



Coming Soon!

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.

Option for four rear-accessible SERDES ports.

Windows and Linux compatible.

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.

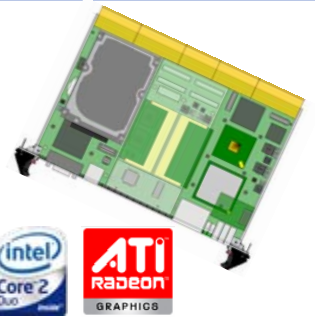
cPCI and cPSB (PICMG 2.16) backplanes.

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.

Rear I/O interface – several RTMs available.

Windows and Linux compatible

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.

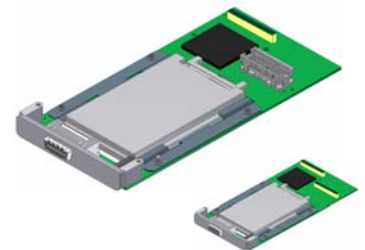
Independent DVI-I and VGA outputs.

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

LVDS output also available.

Windows and Linux compatible.

XMC-SD18 and PMC-SD18 Compact SATA Storage Cards



With SSD or HDD

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

Designed for ultra-compact 1.8 inch microSATA drives.

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

Storage capacities up to 160 GB.

Front and rear SATA I/O channels.

Windows and Linux 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.

COMX-CB COM Express Type 2 Carrier Board



A full-featured development carrier board for getting your COMX-S1 module up-and-running quickly.

COM Express significantly reduces initial platform design time while enabling convenient serviceability and future upgradeability – just unplug and update the COM Module and leave your application-specific I/O carrier in place. Bring increased flexibility and modularity to embedded applications.

PDSi can modify this carrier or custom-design your production carrier board for you. Contact us with your requirements.

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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