



PRESS RELEASE

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Dynatem introduces a Core Duo based 6U

CompactPCI Express Single Board

Computer

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Features:

- **6U CPCI Express form factor per PICMG EXP.0 system slot specification**
- **PICMG 2.16 compatible**
- **Pentium Core-Duo Processor @ 1.66 GHz**
- **Supports two PMC sites, one of which optionally supports XMC modules**
- **E7520 Chipset for PCIe support and high memory bandwidth**
- **Single Slot, 4HP design with option for additional 1 slot storage module**
- **Full support for Windows XP, Linux, VxWorks, LynxOS**

Mission Viejo, California, February 11, 2008---- Dynatem is now shipping the Intel Core-Duo based **EPD** CompactPCI Express Single Board Computer (SBC). The EPD is a 6U single-slot Compact PCI Express platform based on the Intel® low-power Core-Duo (Yonah) processor.

CompactPCIe utilizes many of the same features as legacy CompactPCI, but changes the PCI bus for the new PCIe bus. CompactPCIe replaces the P1 and P2 connectors used in CompactPCI with new connectors that occupy the same physical area. These new connectors provide more power connections, high-speed differential pairs and a path for hybrid slots, which can hold either legacy CompactPCI or the new CompactPCIe I/O boards. The EPD also provides full support for PICMG 2.16. Backplane PCI Express bus connections via ADF connectors XJ2 & XJ3, support either two x8 connections in two-link configuration or four x4 connections in four-link configuration. One blue LED in front panel with "Hot Swap" support.

With its two execution cores, the Intel Core Duo processor is optimized for multi-threaded applications and multitasking. The EPD uses a 1.66 GHz BGA processor that runs at only 15 Watts. This low power performance ideally suits it to embedded, industrial applications where high bandwidth processing is required

The Intel E7520 chipset acts as the central hub for all data passing between the core system elements including processor, memory, PCI Express I/O, and legacy I/O subsystems. The EPD routes x20 PCIexpress to the backplane.

Two PMC sites are provided with 64-bit/66 MHz PCI-X routed to both sites. One of the two PMC sites also supports XMC modules with x4 PCIexpress . Both sites have rear I/O accessibility.

Two SO-CDIMM sockets support a total of 1, 2, or 4 GB of ECC DDR-2 533 MHz memory. Retention clips provide some vibration immunity.

A Silicon Motion SM 712 ultra low-power display controller with 4 MB on-chip memory is provided. One HD-DB15 VGA connector is located on the front panel. Higher resolution graphic solutions are made possible via the PCIexpress compatible XMC site.

One RJ-45 connector on the front panel provides 10/100/1000 Ethernet from the on-board Intel 82541EB. Two additional On-board 10/100/1000 Ethernet using Intel's 82546GB PCI-X with support for either two ports routed to the PICMG 2.16 compatible pins on the backplane or to the rear transition module.

Additional I/O includes two USB 2.0 ports, three COM ports, two SATA, two IDE, floppy and printer interface.

The XPDRTM optional 6U x 80mm CPCI Express rear I/O transition module is also available with form factor per PICMG EXP.0 specification with connectors RJ4, RJ3, RJ4 & RJ5 loaded. It includes interfaces for two USB, 2 Ethernet, two rear PMC interface module (PIM) interface header. Additional RTM interfaces include interface for SATA hard drive, CompactFlash, audio interface header, parallel port connector, two serial connectors, and standard floppy connector.

The optional 6U TBE drive carrier daughterboard includes bays for two mass storage drives which can include ATA or SATA hard disk drives, CD-ROM drives or CompactFlash.

Pricing for the EPD starts at \$4,298 in single quantity. Customized versions can be quoted upon request. Special extended temperature versions and conformal coated versions can be quoted.

Dynatem manufactures and integrates systems based on 6U and 3U VMEbus and CompactPCI and CompactPCI modules. Custom stand-alone embedded designs are also provided. Dynatem is located at 23263 Madero, Suite C, Mission Viejo, CA 92691. For additional information, call (949) 855-3235, fax (949) 770-3481, e-mail [*sales@dynatem.com*](mailto:sales@dynatem.com) or visit our website at [*www.dynatem.com*](http://www.dynatem.com).

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