



PRESS RELEASE

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Dynatem introduces a Conduction-cooled,
Core2-Duo based 6U CompactPCI Single
Board Computer

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Features:

- **Intel Pentium Core™2 Duo Processor @ 1.5 GHz or 2.16 GHz**
- **E7520 Chipset for PCIe support, high memory bandwidth and ECC support**
- **On-board SVGA Controller**
- **Two Bb Ethernet ports routed to the backplane in compliance with PICMG 2.16. As a special option two more Gb Ethernet available from the front**
- **Supports two PMC sites, one of which optionally supports XMC modules**
- **Available with conformal coating**
- **All boards thermally tested prior to shipment**
- **Support for Windows, VxWorks, Linux, QNX Solaris, and LynxOS**

Mission Viejo, California, February 4, 2009---- Dynatem is now shipping the Intel Core2 Duo based **CRD** CompactPCI/PICMG 2.16 Single Board Computer (SBC). The CRD is a 6U single-slot CompactPCI compatible platform based on the Intel® low-

power Core2 Duo processor. The CRD takes advantage of the L7400 Core2 Duo's low power consumption as a rugged SBC. Versions supporting the T7400 2.16 GHz Core2 Duo are also available.

The CRD is a conduction-cooled module with wedge locks and a full-board heat sink for high shock/vibration environments and temperature extremes. Extended temperature and versions with conformal coating are available.

Shock and vibration immunity were major goals in the CRD design. All major components including processor, chipset and memory are BGA based. The only socketed devices on board are the optional CompactFlash and optional battery, both of which are securely fastened when required.

The CRD comes installed with 2 GB or 4 GB DDR2-400 memory, supporting ECC. Memory is BGA for the best shock/vibration spec.

The E7520 Memory Controller Hub (MCH) and 6300ESB I/O Controller Hub (ICH) chips support PCIe and PCI-X expansion, respectively.

Two or four on-board Gb Ethernet ports are controlled by two PCIexpress based 82571EB dual 10/100/1000BaseTX controllers. Two Ethernet PICMG 2.16 compliant Gb Ethernet ports are routed to the backplane. Standard conduction-cooled CRD boards

have no front panel I/O due to the cooling plates. A special version has been developed with additional 2 Gb of Ethernet routed through the front cooling-plates.

Graphics is provided from a Silicon Motion SM712 GPU. SVGA is routed to J5.

Two SATA ports, SVGA video, two Gb Ethernet ports, four COM ports, an IDE interface, PS/2 mouse & keyboard, and two more USB 2.0 ports are routed to the backplane. Conventional PC I/O is accessible with industry-standard connectors on the optional XPDRIO Rear Transition Module..

An on-board CompactFlash site supports up to 32 GB non-volatile memory which permits single-slot booting.

The two on-board PMC mezzanine card interfaces are accessed through the 6300ESB's 64-bit PCI-X bus. One of the two PMC sites also accommodates an XMC module supported by x8 PCIe.

Dynatem offers software support for such popular operating systems as LynxOS, VxWorks, Windows NT, Windows XP, Linux, QNX, and Solaris. Support for other operating systems is available upon request. PXE is available for diskless booting and fully volatile operation – desirable in secure systems.

Pricing for the CRD starts at \$6,938 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, CompactPCI Express, and VPX 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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