



PRESS RELEASE

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Dynatem introduces a Rugged, Low-Power
Core-Duo based VMEbus Single Board
Computer

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Features:

- **Pentium Core-Duo Processor @ 1.66 GHz**
- **E7520 Chipset for PCIe support and high memory bandwidth**
- **On-board SVGA Controller**
- **Two Gb LAN front panel ports plus two more routed to the backplane in compliance with VITA 31.1**
- **Supports two PMC sites, one of which optionally supports XMC modules**
- **Available in conduction-cooled versions for rugged applications**
- **Support for Windows, VxWorks, Linux, QNX Solaris and LynxOS**

Mission Viejo, California, October 1, 2007---- Dynatem is now shipping the Intel Core-Duo based **DPD** VMEbus Single Board Computer (SBC). The DPD is a single-slot VMEbus (and VME64) compatible platform based on the Intel® low-power Core-Duo (Yonah) processor. The DPD takes advantage of the Core-Duo's low 15W power

consumption as a rugged SBC. The DPD requires only 5V from the backplane. This enables full functionality in legacy VMEbus backplane systems.

Shock and vibration immunity were major goals in the DPD 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 DPD is available as an IEEE 1101.2-compliant, conduction-cooled VMEbus module with wedge locks and a full-board heat sink for high shock/vibration environments and temperature extremes. The conduction-cooled version is the **DRD**.

The DPD comes installed with 2 GB ECC compatible DDR2-400 memory. Memory is BGA for the best shock/vibration spec.

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

Four on-board Gb Ethernet ports are controlled by two PCIexpress based 82571EB dual 10/100/1000BaseTX controllers. Two Ethernet ports are accessible from the front panel and two VITA 31.1-compliant, ports are routed to the backplane.

Graphics is provided from an ATI Rage Mobility M1 controller with 8 MB DRAM on-chip. SVGA is routed to P0.

Front panel I/O interfaces include two Gb Ethernet ports, two USB 2.0 ports and front panel I/O for both PMC sites.

Two SATA ports, VGA video, two Gb Ethernet ports, four RS-232 ports, one RS-422 port, 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 optional rear I/O modules.

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

The two on-board mezzanine card interfaces include one PMC site based upon the 64-bit PCI-X bus. The second mezzanine site accommodates either one PMC card (interfaced to 64-bit PCI-X) or one XMC module supported by 8x PCIe.

Dynatem offers Board Support Packages (BSPs) for such popular operating systems as LynxOS, VxWorks, Windows NT, Windows XP, Linux, QNX, and Solaris. Support for other operating systems can be quoted upon request. PXE is available for diskless booting and fully volatile operation – desirable in secure systems.

Pricing for the DPD starts at \$4,738 in single quantity. Customized versions can be quoted upon request. Special extended temperature versions and conformal coated versions can be quoted. The conduction-cooled DRD will be shipping in November 2007.

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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