



DPM

Dynatem introduces High-Performance,

Low-Power Pentium M CPU in a single

VMEbus slot

PRESS RELEASE

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Features:

- **Low-power Intel Pentium M processor at 1.4 GHz**
- **Single-slot VMEbus operation with up to 4 GB bootable CompactFlash**
- **855GME & 6300ESB chipset**
- **Up to 1 GB of DDR-266 SDRAM with ECC, at 2.1 GB/s**
- **One PMC/PMC-X site supports 64-bit PCI up to 66 MHz**
- **Conventional PC I/O (IDE, FDC, mouse/keyboard, LPT1, and COM ports), dual SATA ports, dual USB 2.0 ports, and two Gb Ethernet ports (VITA 31.1- compliant routing) are available through the backplane**
- **Front panel I/O includes one 10/100BaseTX port, a DVO/VGA port, an RS-232 COM port, and two USB 2.0 ports**
- **Ruggedized, IEEE 1101.2-compliant, conduction-cooled versions with heat sink, stiffener bar, and wedgelocks are available**

- **Tundra Universe IID PCI-VMEbus interface provides 64-bit VMEbus transfers**

Mission Viejo, California, November 5, 2004---- Dynatem is now introducing the Intel Pentium M-based **DPM**. The DPM offers a high-performance x86 processor that is ideal for embedded applications with its low power consumption. The high-speed 855GME & 6300ESB chipset supports a 66 MHZ PCI-X expansion bus that can fully utilize the two Gb Ethernet ports available on the DPM with no data transfer bottleneck. A 10/100BaseTX port, an RS-232 COM port, a DVO/VGA port, and two USB 2.0 ports are all accessible from the front panel. On-board CompactFlash permits single-slot booting. Additional I/O routed to the backplane includes IDE, two Serial ATA ports, two Gb Ethernet ports (VITA 31.1 compatible), DVO/VGA, more USB 2.0 or a variety of standard PC I/O made available with a Super I/O device on rear plug-in cards (LPT1, PS/2 Mouse/Keyboard, FDC, two RS-232/422/485 ports). A PMC expansion site permits I/O tailored to users' application requirements.

The Pentium M processor utilizes a new micro architecture to meet the current and future demands of high-performance, low-power embedded computing, making it ideal for communications and industrial automation applications. It features advanced branch prediction capability, micro-ops fusion for improved instruction execution, and a dedicated hardware stack manager that employs sophisticated hardware control for improved stack management.

The DPM's 855GME & 6300ESB chipset includes DRAM controller, PCI bus arbitration logic and interface, high-performance PCI, USB 2.0 interfaces, RTC, NV-RAM, standard PC timers, Ultra DMA, and interrupt logic. The chipset also provides Ultra ATA 100/66/33 IDE protocol and Serial ATA.

The DPM comes populated with 512 MB or 1 GB of DDR-266 SDRAM with ECC and a memory bandwidth of 2.1 GB/s.

The 855GME offers integrated, high-performance graphics that can support resolutions up to 1600 x 1200 at 85 MHz. The DPM provides a DVI-I graphics interface connector on the front panel that integrates a PaneLink digital graphic interface with a conventional SVGA analog interface. The 6300ESB supports PCI-X transfer rates of 66 MHz (64-bit) for the on-board PMC site and the high-bandwidth 82546 dual-port Gb Ethernet controller.

Front panel I/O includes DVO/VGA, dual USB 2.0, and a 10/100BaseTX port. The secondary IDE interface is routed to the on-board CompactFlash connector while the primary IDE is routed through P2. The DPM supports either two additional USB 2.0 ports and a COM port routed to P2 or a Low Pin Count (LPC) bus routed through P2 to a Super I/O device located on the optional rear plug-in module. That Super I/O device provides standard PC I/O, such as two COM ports (each selectable for RS-232/422/485),

floppy disk controller, PS/2 mouse/keyboard interface, and a parallel printer port. The rear plug-in card uses standard interfaces for all I/O.

The Tundra Universe IID PCI-VMEbus interface chip allows 64-bit VMEbus transfer rates over 30 MB/sec. Full VMEbus System Controller functions are provided. Versions of the DPM without the Universe IID installed offer a lower-cost, non-VMEbus-compatible option.

Dynatem offers board support packages for such popular operating systems as VxWorks, Windows NT, Windows XP, Linux, QNX, and RTX. Support for other operating systems can be quoted upon request.

Pricing for the DPM starts at \$3,350 in single quantity. Customized versions can be quoted upon request. Other x86-based VMEbus processor boards from Dynatem include the extended temperature/rugged **DPC2**, the low-cost **DMC** with two PMC sites in a single VMEbus slot, and the high-performance **DHC**. The **RPM**, a ruggedized version of the DPM, with stiffener bar, conduction-cooling and -40°/+85° C operating temperature range, will be available in January 2005.

Dynatem manufactures and integrates systems based on 3U and 6U VMEbus 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 or visit our website at www.dynatem.com.

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