CPM1

Dynatem introduces High-Performance, Low-Power Pentium M CPU in a single Compact PCI slot

PRESS RELEASE

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Features:

- **Low-power Intel Pentium M processor at 1.4 GHz or 1.8 GHz with 855GME & 6300ESB chipset**
- **Single-slot Compact PCI operation with up to 4 GB bootable CompactFlash**
- **PICMG 2.0 R3.0 Compliant with PLX non-transparent, universal PCI-PCI bridge provides 64-bit CompactPCI transfer rates at 66 MHz**
- **Up to 1 GB of DDR-266 SDRAM with ECC, at 2.1 GB/s**
- **Two PMC (one supporting PMC-X transfers) sites**
- **Conventional PC I/O (DVI-I, IDE, FDC, and undriven COM3/4 ports), dual SATA, four USB 2.0 ports, and two 2.16 compliant Gb LAN ports, and PMC I/O are available through the backplane**
- **Front panel I/O includes a combined mouse/keyboard PS/2 port, one 10/100/1000BaseTX port, and two RS232/485 COM ports**

- **Ruggedized, conduction-cooled versions with heat sink, stiffener bar, and wedgelocks are available**
- **Pigeon Point's IPM Sentry offers IPMI system management in compliance with PICMG 2**

Mission Viejo, California, November 7, 2005---- Dynatem is now introducing the Intel Pentium M-based **CPM1**. The CPM1 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 CPM1 with no data transfer bottleneck. A Gb Ethernet port, two RS232/485 COM ports, and a combined mouse/keyboard port 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 (PICMG 2.16 compatible), DVI-I, four USB 2.0 ports, PMC I/O (routed in compliance with PICMG 2.3 R1.0 for the PCI-X slot), and a variety of standard PC I/O made available with an on-board Super I/O device (PS/2 Mouse/Keyboard routed to the front panel, FDC, and two RS232/422/485 ports). Two PMC expansion sites (one supporting PCI-X at 66 MHz) permit 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. The CPM1 supports Pentium M

processors at 1.4 GHz and 1.8 GHz. The 1.4 GHz processor operates up to a temperature of 70º C, ambient. For extended temperature operation up to 85º C Celeron M processors at 1.0 GHz are available.

The CPM1's 855GME Graphics & Memory Controller Hub includes a DRAM controller (The CPM1 comes populated with 512 MB or 1 GB of DDR-266 SDRAM and a memory bandwidth of 2.1 GB/s), PCI bus arbitration logic and interfaces, four USB 2.0 interfaces, RTC, NV-RAM, standard PC timers, Ultra DMA, and interrupt logic. The 855GME offers integrated, high-performance graphics that can support resolutions up to 1600 x 1200 at 85 MHz. The CPM1 routes the graphics interface to the backplane and an optional rear I/O module provides a DVI-I connector that integrates a PanelLink digital graphic interface with a conventional SVGA analog interface.

The 6300ESB I/O Controller Hub supports PCI-X transfer rates of 66 MHz (64-bit) for one on-board PMC site and 32 bits @ 33 MHz for the second PMC site. The 6300ESB also provides Ultra ATA 100/66/33 IDE protocol (the primary IDE interface is routed to J5 while the secondary port goes to an on-board CompactFlash drive) and two Serial ATA ports.

PLX's PCI6254 Universal, non-transparent bridge lets the CPM1 function as a system slot cPCI module or as a peripheral slot (PICMG 2.0 R3.0 Compliant). The CPM1 also routes two Gb Ethernet ports to the backplane in compliance with PICMG 2.16 for fabric

switching blade operation and it uses the Pigeon Point IPM Sentry for IPMI system management in compliance with PICMG 2.9.

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 CPM1 starts at $2,900 in single quantity. Customized versions can be quoted upon request.

Dynatem manufactures and integrates systems based on 3U and 6U Compact PCI 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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