



PM854 Module

Dynatem offers MPC8240 PowerQUICC III™

Performance in Credit Card Size

PRESS RELEASE

PHOTO AVAILABLE

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- **All Processor and I/O signals including 64-bit PCI-X, Gigabit Ethernet and RapidIO are routed to High Density connectors**
- **Simple carrier board can be quickly designed to meet any I/O specification**
- **Compact size, only 80mm x 95mm**

Mission Viejo, California, March 7, 2005. The **PM854** is a small computer on module (COM) that makes all the features of the Freescale PowerQUICC MPC8540 available for custom design. It is a complete and autonomous, working industrial computer and, unlike any other MPC8540 board design, it lets the user decide which kind of available I/O shall be used for a certain application. The module makes all MPC8540 I/O signals available, without any restriction together with the local bus. All signals are routed to high density connectors to the carrier board.

The Freescale PowerQUICC MPC8540 with Embedded e500 Book E compatible core will be available up to 1GHz. It's features include 32 KB L1 data and 32 KB L1 instruction cache with parity protection, 256 KB on-chip L2 cache with ECC support , and built-in Memory Management Unit (MMU). I/O and communication protocols offered by the MPC8540 include: two Gigabit Ethernet, one Fast Ethernet, two 16450-compatible UARTs, one I²C, one 8-bit RapidIO-Interface, one 32/64Bit PCI or 64-bit PCI-X up to 133 MHz.

The PM854 was designed to allow fast design of board level products based upon the MPC8540. By putting all of the memory devices on the module and making all I/O and local bus signals available to the carrier board, the design of the carrier can be as simple as adding line drivers and connectors.

The PM854 module currently includes the MPC82540 PowerQUICC III @ 833 MHz. As faster versions of the MPC82540 become available, new versions of the PM854 will be introduced. These upgrades will be transparent to the carrier board, however.

The PM854 module includes up to 512MB DDR-SDRAM with ECC support, and 64 MB Flash. The Disk-On-ChipTM option supports up to 1GB ATA-Flash. An RTC backed up by a GoldCap or external backup supply is also included.

Commercial (0°/70°C operating) and Industrial (-40°/85°C operating) versions of the PM854 are available.

All PowerQUICC III I/O lines are interfaced to the carrier board via a 200-pin connector. A second 200-pin connector interfaces the local bus or PCI-X. Also routed to the carrier board are the COP / JTAG interface, reset and watchdog logic.

Software drivers are available for VxWorks, and Linux.

The CR854 evaluation carrier is available as a design reference or as a target system.

It's dimensions are 200 x 185 mm and includes interfaces for 3x 10/100 MBit Ethernet, 64-Bit PCI Slot, 2x Gigabit Ethernet (optional), RapidIO-8, GPIO, Local Bus, and 2x Serial Port (UART). General Purpose IO (GPIO) interfaces are included for: I²C, SPI, UTOPIA Level II, TDM (E1/T1). The CR854 carrier also includes a Debug/JTAG Port and an interface for ATX Power Supply.

In low volumes, the price for the PM854 is \$1,738. Delivery is 3 weeks ARO.

Dynatem manufactures and integrates systems based on 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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