

Embedded Planet

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EP8343M

With the EP8343M you can have it your way. The EP8343M is a PrPMC/PT0MC board designed for ease of integration into standards-based CompactPCI systems. For simple software development, the EP8343M can be used in a standalone mode with a wall cube power supply when a full CompactPCI system is unnecessary or inconvenient. You have a choice of operating systems and custom hardware diagnostics letting you focus on your application development and getting to market first.

The EP8343M features a Freescale MPC8343E PowerQUICC II Pro processor that offers a cost-effective, high performance platform for developing advanced network enabled applications. The MPC8343E builds on the PowerQUICC II System-on-Chip (SoC) architecture including an e300 PowerPC core, an integrated security engine, a DDR memory interface, dual Gigabit Ethernet controllers, PCI and USB controllers. The highly integrated SoC architecture improves system performance, simplifies board design, lowers power consumption, and reduces cost.

Embedded Planet can custom configure several hardware options with low minimum build requirements ensuring that you can meet your desired price point. The EP8343M can have a maximum of 256 MB of DDR RAM with ECC, 256 MB of flash, and 1 MB of NVRAM. It includes two Gigabit Ethernet ports, one USB 2.0 Host/Device/On-The-Go port, and one RS-232 serial port. For a removable storage option the board supports up to 1 GB of TransFlash memory, a microSD format that is about 25 percent the size of an SD memory card.

The EP8343M is well supported by Embedded Planet's extensive software capabilities. Each board includes the open source U-Boot bootloader and flash programmer, PlanetCore hardware diagnostics, Linux, Green Hills INTEGRITY, and VxWorks board support packages. The complete system ensures that you can quickly move past basic board support and begin deploying your application.



FEATURES:

- Freescale MPC8343E PowerQUICC II Pro processor at up to 400 MHz
- Integrated hardware security engine with support for DES, 3DES, MD-5, SHA-1, AES, and ARC-4 encryption algorithms
- Configurable memory options with up to 256 MB DDR RAM, 256 MB of flash, and 1 MB of NVRAM
- Dual Gigabit Ethernet connections using the MPC8343E's integrated controllers for high speed network applications
- High speed USB 2.0 Host/Device/On-The-Go port using the MPC8343E's integrated controller
- TransFlash connector supports up to 1 GB of removable storage in ultra small form factor
- RS-232 serial port connector for direct module management and access to the operating system console
- On-board JTAG connection to simplify development and debugging of software applications
- Software support includes: PlanetCore Hardware Diagnostics, U-Boot Bootloader, Linux, INTEGRITY, and VxWorks Board Support Packages
- I2C Bus devices fully supported in software include real-time clock, temperature sensor, and EEPROM
- Board can operate in both standalone mode and as a PrPMC for use in CompactPCI applications