# PowerQUICC ${ }^{\circledR}$ II Pro Processor with DDR2, PCI, PCI Express, 1 GB Ethernet, USB, Security 

## MPC8378E

Not Recommended for New Designs

This page contains information on a product that is not recommended for new designs.

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MPC837X device is "Not recommended for new designs", please use the replacement families Power Architecture (T1013), Arm Architecture (LS1012, LS1023).

Today's small-to-medium businesses and consumer applications are driving the need for highly integrated, cost-effective solutions that deliver high performance. The MPC8378E provides a high-performance Power Architecture® e300 core up to 800 MHz with $32 \mathrm{~K} \mathrm{I/D} \mathrm{L1} \mathrm{cache} \mathrm{and}$ integrated $\times 2$ PCI Express® controllers that help to reduce overall BOM cost. The system-onchip (SoC) includes two Gigabit Ethernet (GbE) controllers with an SGMII interface for network connectivity, as well as a security engine for encryption algorithm offload. The MPC8378E, based in 90 nm process technology, provides high integration that simplifies board design and provides a cost-effective solution for applications such as wireless access points and routers.

## NXP PowerQUICC MPC837XE Communications Processor Block Diagram Block Diagram

MPC8379E Block Diagram


Core
Accelerators I/O

View additional information for PowerQUICC® II Pro Processor with DDR2, PCI, PCI Express, 1 GB Ethernet, USB, Security.
Note: The information on this document is subject to change without notice.

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