



PowerQUICC® II Pro Processor with DDR2, PCI, PCI Express, 1 GB Ethernet, USB, Security

MPC8378E

Not Recommended for New Designs

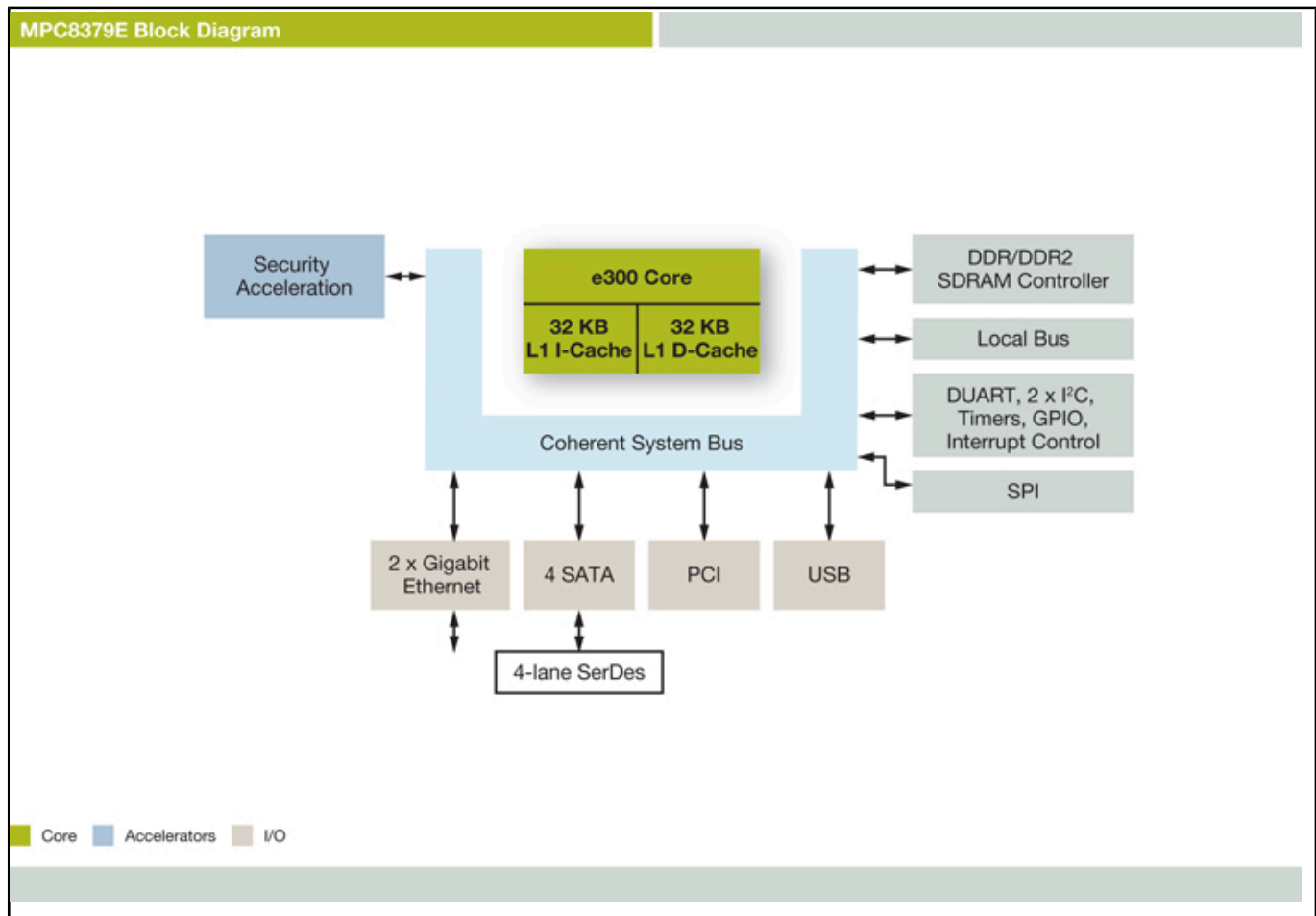
This page contains information on a product that is not recommended for new designs.

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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 800MHz with 32K I/D L1 cache and integrated x2 PCI Express® controllers that help to reduce overall BOM cost. The system-on-chip (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



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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