



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

## MPC8378E

### Not Recommended for New Designs

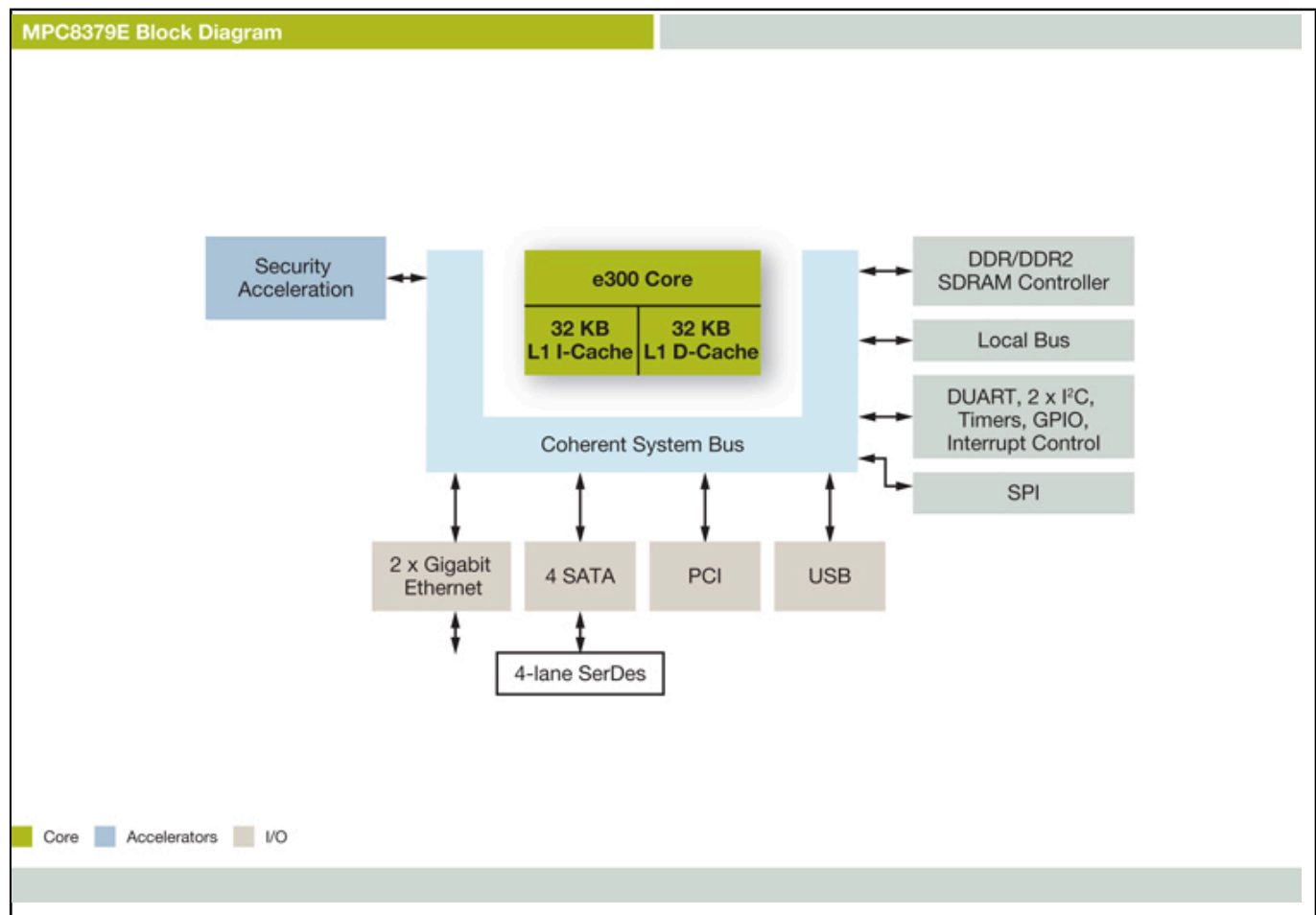
This page contains information on a product that is not recommended for new designs.

Last Updated: Dec 15, 2024

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.

**www.nxp.com**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.