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

MPC8379E
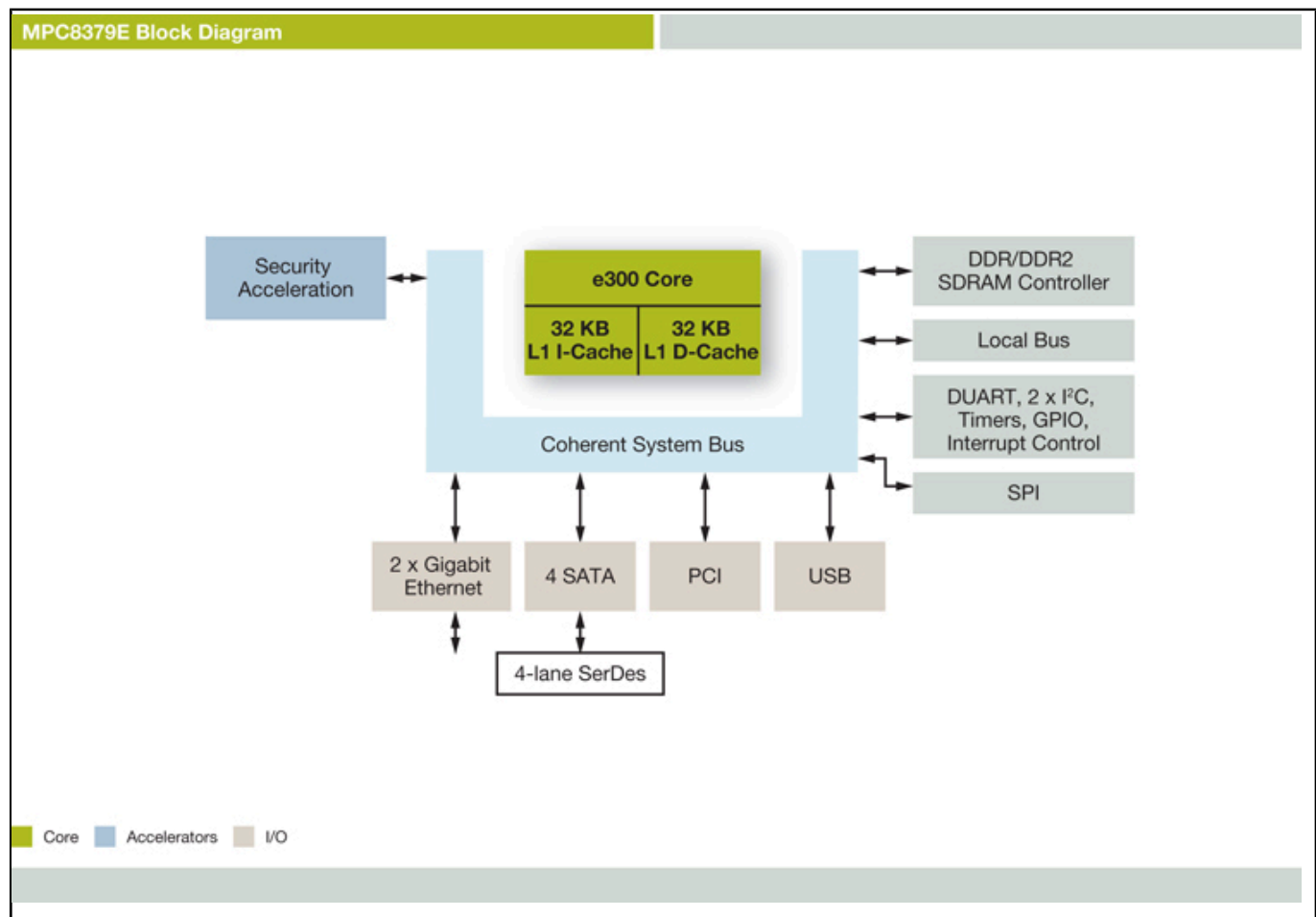
Not Recommended for New Designs

このページでは、新規設計を推奨しない製品に関する情報を掲載しています。

Last Updated: May 30, 2025

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 and cost-effective solutions that deliver high-performance. The MPC8379E provides a high performance Power Architecture® e300 core up to 800 MHz with 32K I/D L1 cache, and integrated x4 serial ATA controllers that help to reduce overall BOM cost. The system-on-chip (SoC) also includes two Gigabit Ethernet (GbE) controllers for network connectivity and a security engine for encryption algorithm offload. The MPC8379E, based in 90 nm process technology, provides high integration that simplifies board design and provides a cost-effective solution for critical applications such as network attached storage.

NXP PowerQUICC MPC837XE Communications Processor Block Diagram Block Diagram

MPC8379E Block Diagram

Security Acceleration

e300 Core

32 KB L1 I-Cache | 32 KB L1 D-Cache

Coherent System Bus

DDR/DDR2 SDRAM Controller

Local Bus

DUART, 2 x I²C, Timers, GPIO, Interrupt Control

SPI

2 x Gigabit Ethernet

4 SATA

PCI

USB

4-lane SerDes

Core   Accelerators   I/O

View additional information for PowerQUICC® II Pro Processor with DDR2, PCI, SATA, 1 GB Ethernet, USB, Security.

Note: The information on this document is subject to change without notice.