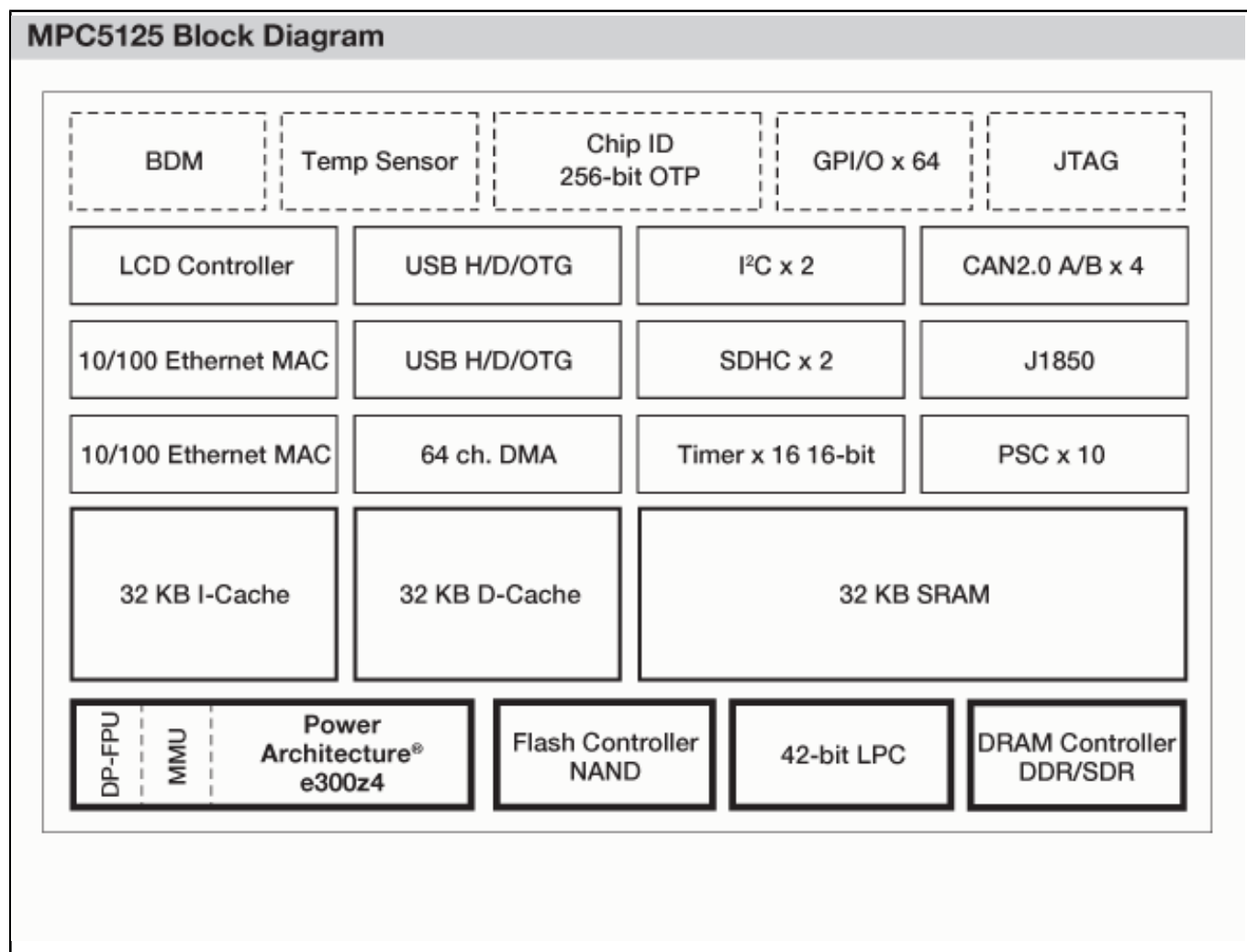# 32-Bit Microprocessor

MPC5125

Last Updated: Jul 3, 2023

The MPC5125, a cost and power consumption optimized, automotive, industrial networking, and human-machine interface (HMI) solution. It helps reduce your development time, provides more communication peripherals at a competitive price and delivers ultra-low power without sacrificing performance.

The MPC5125 is a member of the mobileGT family of processors. NXP® is working closely with mobileGT alliance member companies to provide widespread firmware and software driver support. This includes support for popular real-time operating systems from Green Hills, QNX and Wind River, as well as open-source Linux® solutions.

mobileGT MPC5125 Microcontroller Block Diagram Block Diagram

MPC5125 Block Diagram

BDM	Temp Sensor	Chip ID 256-bit OTP	GPI/O x 64	JTAG

LCD Controller	USB H/D/OTG	I²C x 2	CAN2.0 A/B x 4
10/100 Ethernet MAC	USB H/D/OTG	SDHC x 2	J1850
10/100 Ethernet MAC	64 ch. DMA	Timer x 16 16-bit	PSC x 10

32 KB I-Cache	32 KB D-Cache	32 KB SRAM

DP-FPU	MMU	Power Architecture® e300z4	Flash Controller NAND	42-bit LPC	DRAM Controller DDR/SDR

View additional information for 32-Bit Microprocessor.

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