

The EPT2080E PCIe board is a cost-effective and powerful platform for developing high performance networked control devices. The board will fit into standard PCIe slots or run standalone, while 2 10Gigabit Ethernet ports via SFP+ cages, 1 Gigabit Ethernet, 1 serial port (via USB) and 1 USB port provide the necessary I/O.

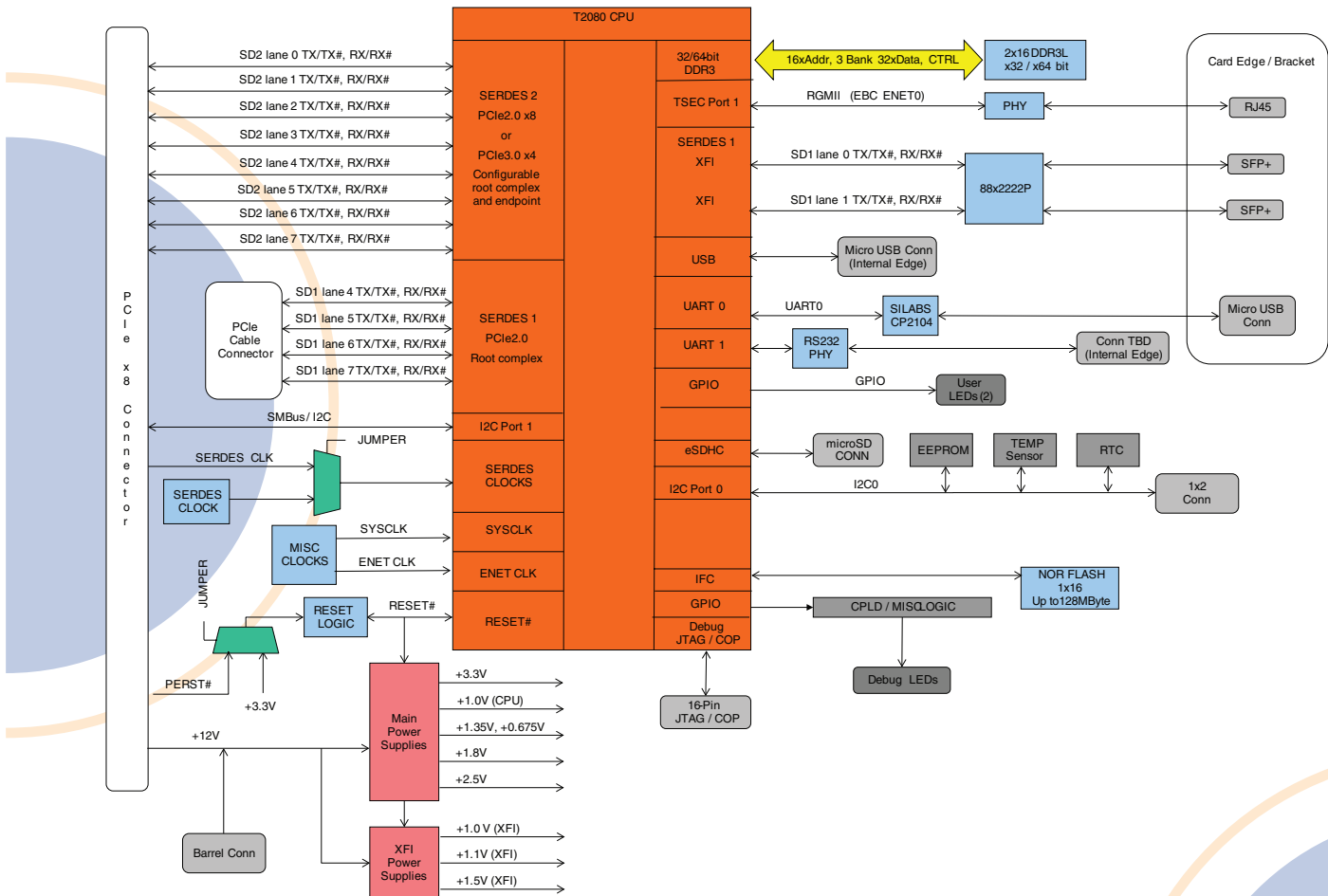
At the heart of the EPT2080E is the Freescale QorIQ T2080. The T2080 is a highly integrated SoC that includes up to 4 e6500 cores at speeds up to 1.8GHz, a floating point unit, flash controller, DDR3L RAM controller, USB 2.0 host and device controllers, and multiple 10Gigabit Ethernet MACs. The high level of integration increases performance, while lowering system power consumption and cost.

The board is supported by the U-Boot bootloader and BSPs for Linux, VxWorks, and Green Hills INTEGRITY.

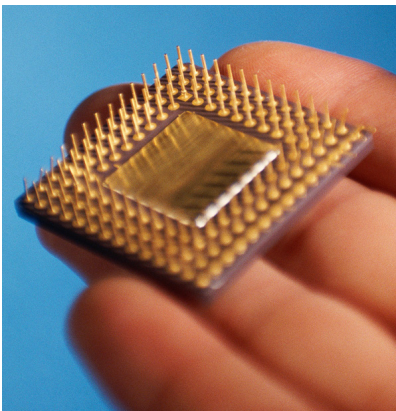
Feature Summary:

Specification:	Description:
Processor:	Freescale T2080 at up to 1.8GHz
Memory:	RAM: x32 bit DDR3L memory at 1066MHz FLASH: Local boot memory x16 bit NOR FLASH or Micro-SD card
Card Edge / Bracket:	<ul style="list-style-type: none"> One Gigabit Ethernet via RJ45 connectors Two 10 Gigabit Ethernet via XFP connectors USB master/slave interface via USB micro-B connector Serial port via micro-B USB connector
Clocks:	On board clocks for system, SerDes, and Ethernet
I2C Devices:	I2C bus with EEPROM, temperature sensor, RTC, and a 1x2 header
Form Factor:	PCI Express, standard full height, full length mechanical
SerDes1:	configured as x4 PCIe to a PCIe cable connector
SerDes2:	configured as either x8 PCIe 2.0 or x4 PCIe 3.0
Debug:	JTAG / COP debug port

Hardware Block Diagram



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