

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, and 1 Gigabit Ethernet, 1 serial port (via USB) and 1 USB port provide the necessary I/O.

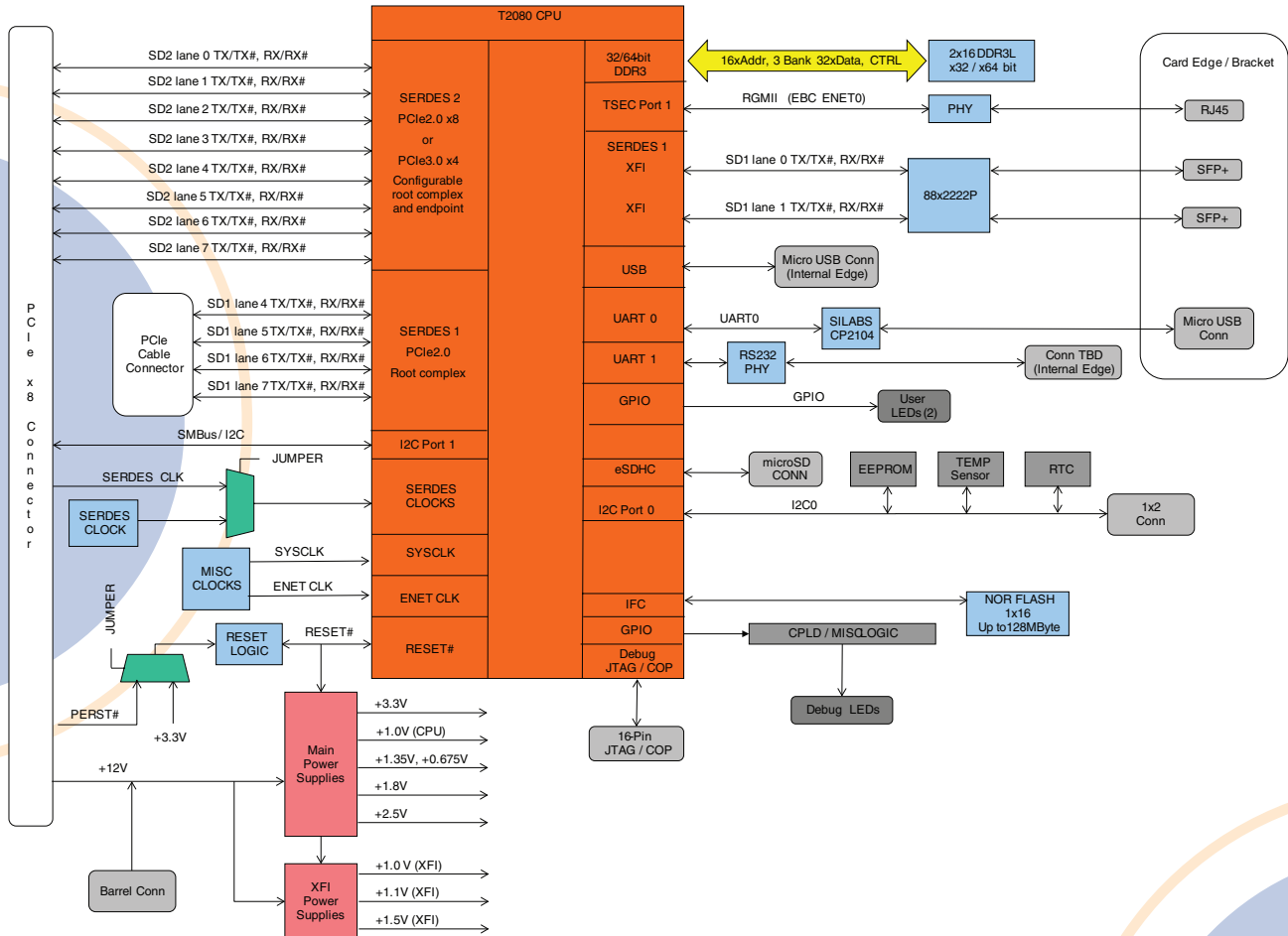
At the heart of the EPT2080E is the Freescale QorIQ T2080. The T2080 is a highly integrated SoC that includes up to 4 e6500 cores at speeds up to 1.8GHz, a floating point unit, flash controller, DDR3L RAM controller, USB 2.0 host and device controllers, and multiple 10Gigabit Ethernet MACs. The high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



Let Us Do The Heavy Lifting



- Embedded Planet offers a complete set of software and hardware services to go along with our Off-the-Shelf solutions.
- Embedded Planet has extensive experience with embedded operating systems and firmware. Our stock configurations of operating systems and firmware can be customized to meet your particular needs.
- We can alleviate the headaches associated with volume production of embedded systems. Your product is delivered 100% tested from an ISO-9002 certified manufacturing facility.
- Our capabilities are available on a project basis to design custom solutions specifically tailored to your application.
- Contact Embedded Planet to find out how we can accelerate your project.

Copyright © 2013 Embedded Planet, Inc. All Rights Reserved.