EMBEDDED PLANET

EP7800

Cavium Octeon III Dev Board
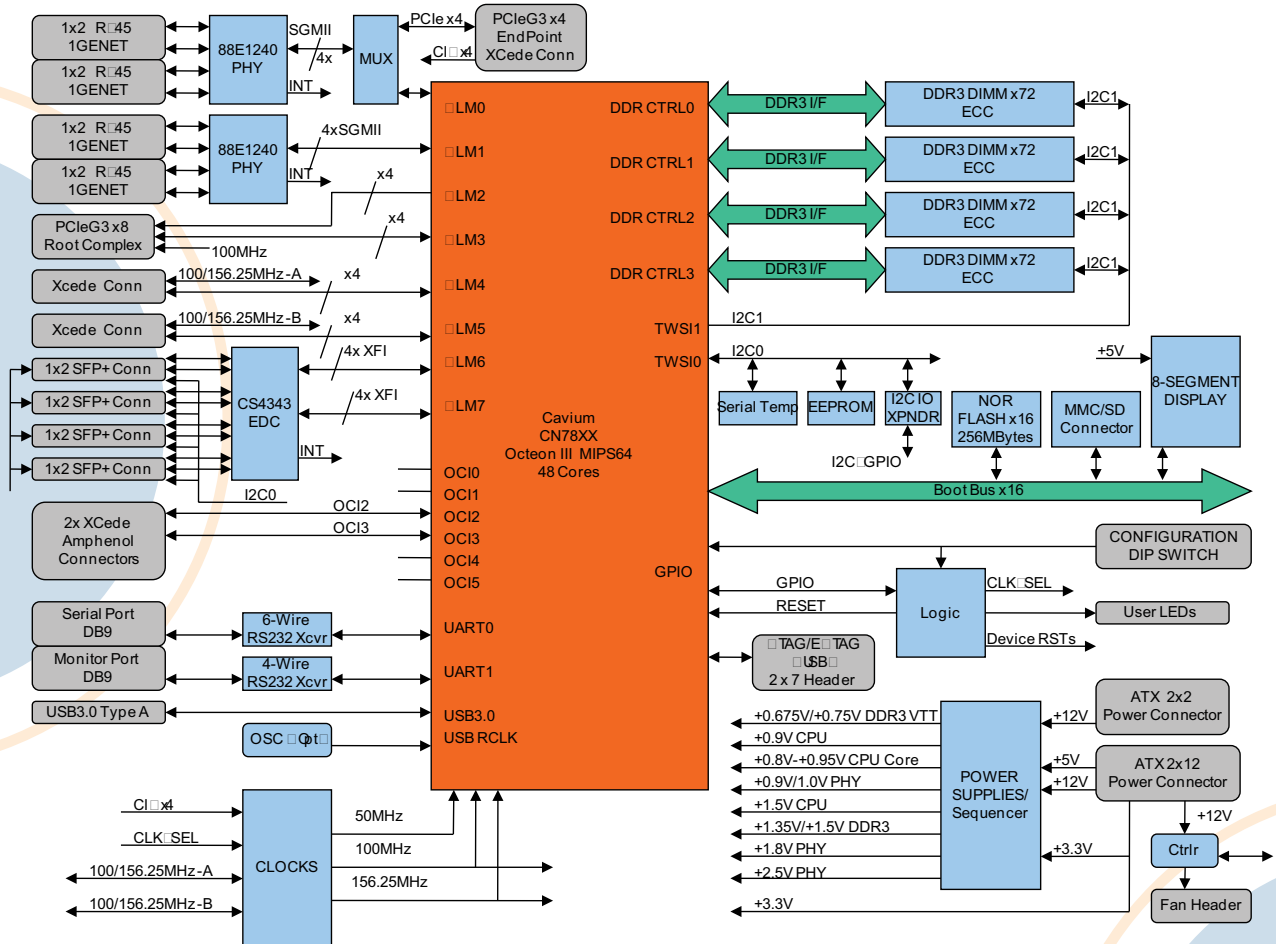

Feature Summary:

Specification:	Description:
Form Factor:	ATX form factor, ATX power supply connector
Processor:	Cavium Octeon III CN78xx
RAM:	4 DDR3 controllers support one DIMM each, up to 256GBytes per DIMM
Flash:	Up to 64MB, 1 GB NAND Flash
Ethernet:	8 - 10/100/1000 and 8 - 10Gbps, SPF+ ports
Serial Ports:	6-wire RS232, DB9 and 4-wire RS232, DB9
USB:	USB 3.0 Host, Type A
I2C Devices:	EEPROM and CPU Serial Temp
JTAG:	On board JTAG debug connector
Power:	Unit ships with standard ATX power supply
Software:	U-Boot firmware and Linux support for serial and low level drivers

The EP78xxC is being developed in partnership with Cavium and uses the OCTEON III CN78xx Multi-Core MIPS64 Processors. With up to 48 cnMIPS64 III cores developers can access over 500 application acceleration engines including integrated high-performance search processing leveraged from Cavium's NEURON Search processors, chip-to-chip interconnect and an innovative real time PowerMin™ power manager. Features include multiple ports of 40G, 20G, 10G, GE, Interlaken/LA, SRIO, PCIe Gen3 and USB 3.0.
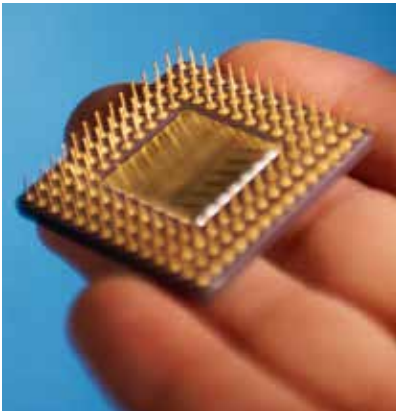
The EP78xxC ships with u-boot installed and a Cavium SDK CD. The kit includes an enclosure, power supply and full documentation.

Contact Embedded Planet today for your OCTEON II and OCTEON III hardware and software product development!

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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.