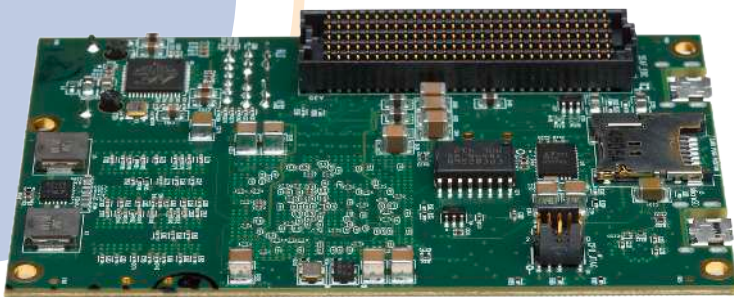




Actual Size - Top



Actual Size - Bottom

The EP5CSXxS is a compact, cost-effective, and powerful platform for developing high performance network and control applications including imaging, industrial machine control, networking and medical device control. At only 3.5" x 2.2" x 1.0", the board stack will fit into compact spaces, while allowing access to the powerful features of the Altera Cyclone V device.

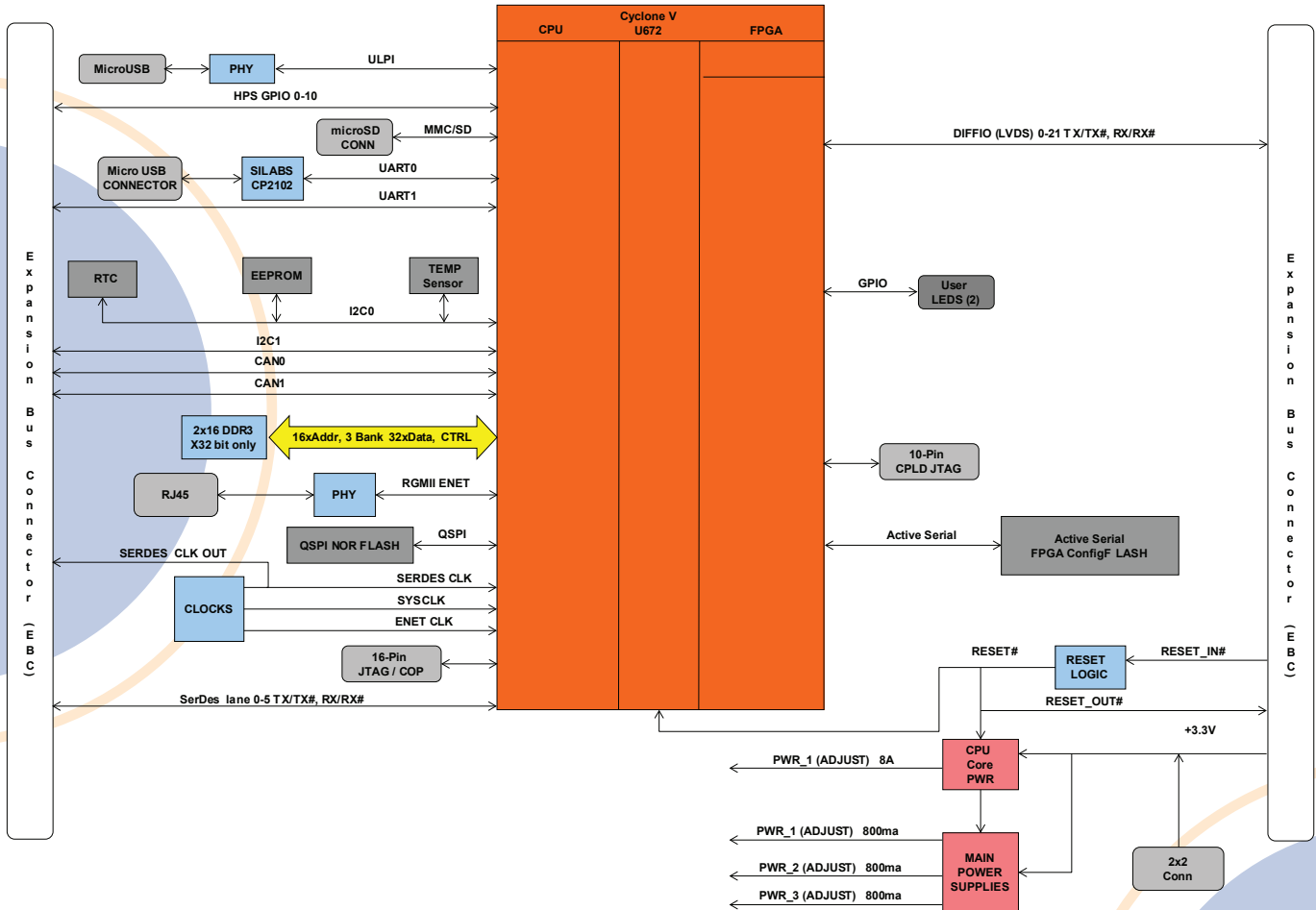
At the heart of this Embedded Planet SOM is the Altera Cyclone V device. The Cyclone V device is a highly integrated FPGA / SoC combination that includes two ARM A9 cores at speeds of up to 800MHz, dual floating point units, NAND flash controller, DDR3 RAM controller, USB 2.0 OTG controller, and Gigabit Ethernet. This Altera device allows users to create a single chip solution for both CPU / RTOS and FPGA. The high level of integration increases performance, while lowering system power consumption and cost.

The EP5CSX is supported by the U-Boot bootloader and BSP for Linux.

Feature Summary:

Specification:	Description:
Processor:	Altera Cyclone V with Dual-core ARM A9 MPCore at 800MHz per core
Memory:	RAM: Up to 1GB DDR3 CPU FLASH: Up to 256MB, plus SD card socket FPGA Config. FLASH: Up to 256MB
Ethernet:	1 Gigabit RJ45
Serial Ports:	1 RS-232 via micro USB connector
USB:	OTG port via micro USB connector
I2C Devices:	EEPROM and Real Time Clock
Form Factor:	Credit Card size (3.5" x 2.2"), < 1.0" high
Debug:	2 On board JTAG debug connectors
Software:	U-Boot Bootloader and Linux BSP available
Notes:	Available as industrial temperature rated module

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.